

REPORT

ON THE

SANITARY CONDITION

OF THE

County Borough

OF

Birkenhead,

FOR THE YEAR 1914,

BY

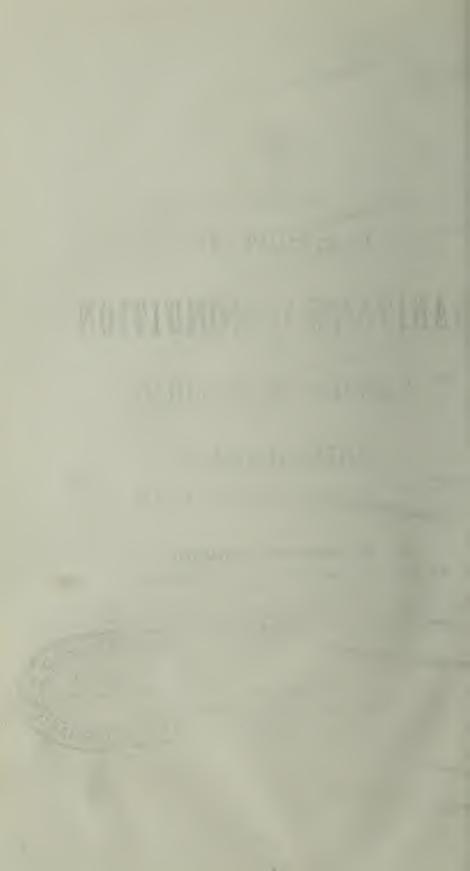
R. SYDNEY MARSDEN,

M.B., D.Sc., Ch.M., D.P.H., F.R.S. (Edin.), M.R.I.A., F.I.C., Hon. L.A.H. (Dublin).

Medical Officer of Health; School Medical Officer; Medical Officer to the Mental Deficiency Committee; Supervising Tuberculosis Officer; Physician and Superintendent to the Fever and Smallpox Hospitals, &c.

BIRKENHEAD:

WILLMER BROS. & Co., LTD., 64/68, CHESTER STREET.





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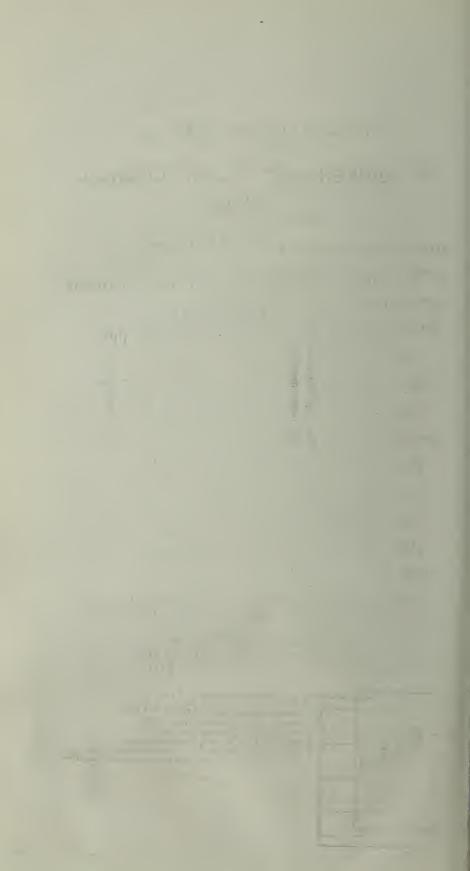
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1915.



HEALTH COMMITTEE

OF THE

BIRKENHEAD TOWN COUNCIL,

1914-1915.

||\$\pmax***Mr. Alderman E. G. MASON, J.P., CHAIRMAN.

"#\$ *MR. ALDERMAN THOMAS SHAW, DEPUTY-CHAIRMAN.

H‡\$†*MR. ALDERMAN MICHAEL BYRNE.

|| *MR. ALDERMAN FREDERICK NAYLOR, J.P.

MR. COUNCILLOR JAMES ASPINALL.

§MR. COUNCILLOR W. M. CAMPBELL.

MR. COUNCILLOR M. M. FORSYTHE.

||t\\$+*Mr. Councillor ROBERT FRAME.

§MR. COUNCILLOR WILLIAM JACKSON, J.P.

†*MR. COUNCILLOR W. W. KELLY.

MR. COUNCILLOR DAVID MACIVER.

§MR. COUNCILLOR FRANK TWEEDLE.

§MR. COUNCILLOR JOHN PLATT.

†§MR. COUNCILLOR DAVID ROGER ROWLANDS.

AND

HIS WORSHIP THE MAYOR (A. H. ARKLE, Esq., J.P.).



Day of Meeting every alternate Tuesday at 4 p.m.

* Members of the Health Sub-Committee.

† Members of the Hospital Sub-Committee.

§ Members of the Housing Sub-Committee. ‡ Members of the Shops Act—Sub-Committee.

|| Members of the Dispensary and Sanatorium Sub-Committee.

Officials of the Public Health Department, 1914.

Medical Officer of Hea'th and Supervising Tuberculosis Officer.

R. Sydney Marsden, M.B., D.Sc. (Chem. & Physics),
Ch.M., D.P.H., F.Inst.Chem., F.R.S. (Ed.),
M.R.I.A., Hon. L.A.H. (Dublin)., &c.

Tuberculosis Officer and Assistant M.O.H. CYRIL BANKS, M.B., B.Surg. (Lond.), D.P.H.

Borough 8acteriologist.

PROFESSOR E. M. BEATTIE, M.D., Ch.M. (Edin.), M.A., University of Liverpool.

Borough Analyst.

HERBERT E. DAVIES, M.A. (Cantab.), B.Sc. (Lond.), F.Inst.Chem.

Chief Inspector and Inspector under the Food and Drugs Act.
*WILLIAM DAWSON, ASSOC. SAN. INST.

Chief Clerk.

JOSEPH BENNETT.

Statistical Clerk,

Junior Clerks,

JOHN R. KNOWLES, R. E. JONES. E. P. ROGERS, ALICE JONES.

Inspector of Meat, Fish, and Slaughter Houses.
**JOHN M. CARNIE.

Assistant. A. CARNIE.

A. CARNIE. Inspector of Housing.

*A. Longstaff.

*John Lee. *H. T. Taylor. *W. H. Tilston.

*JOSEPH CROSHAW.

Inspector of Workshops and Bakehouses

*S. G. RACKHAM.

Inspector under the Tuberculosis Order.

*MISS MARION GIBSON. | MISS S. JONES.

Inspector under the Shops Act, 1912.

GEORGE WILLS.
Inspector of Common Lodging Houses and Houses let In
Lodgings.

JOHN JONES.

Disinfecting Inspector.
ISAAC TAYLOR.

Kee er of Disinfecting House.

JNO. TAYLOR.

Inspector of Midwives and Health Visitor.
*MISS M. E. HUGHES.

MISS M. E. HUGHES.

Health Visitors.

*Miss E. A. Radford. *Miss G. E. Carre.

Disinfecting Labourers,

ROBERT NIELD. *JOHN JACKMAN. TIMOTHY J. SCOTT.

[Those marked thus * have passed the examination of the Sanitary Institute or the Scottish Sanitary Institute.

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To the Mayor, Aldermen, and Council of the County Borough of Birkenhead.

GENTLEMEN,

I have the honour of submitting to you my Twenty-Third Report to the Health Committee on the Health of Birkenhead, viz., that for the year 1914.

This will be found to be on the same lines as in previous years, an arrangement which has been found very convenient for reference.

I would again record my indebtedness to my fellow officials in the Public Health Department—especially to Mr. Wm. Dawson, the Chief Inspector—for the valuable and willing help they have given me at all times in carrying out the duties of my office, and to Mr. John Owen, my statistical clerk, for the assistance he has given in preparing this report.

Two of my clerical staff, Mr. J. R. Knowles and Mr. John Owen, volunteered for service with the Army, of which the Department are duly proud. But it is to be regretted that Mr. Owen afterwards strained his foot in marching, and had to give up the Army on this account.

I have the honour to be, Gentlemen,*

Your obedient servant,

R. SYDNEY MARSDEN, Medical Officer of Health.

Public Health Department, Town Hall, April 10th, 1915.

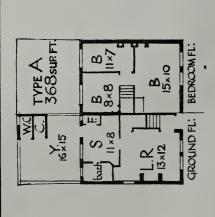
COUNTY BOROUGH OF BIRKENHEAD

DURING 1914,

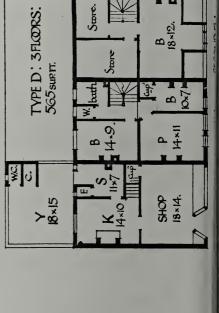
SHORT SUMMARY.

Area in Acres3,850, or a little more than 6 square miles.			
Population (at Midsummer)	137,996		
No. of Inhabited Houses at time of Census, 1911	24,343		
Number of Persons per House at time of Census, 1911	5 ·3		
Rateable Value	£709,863		
${\tt Id.}$ in the £ yielded for General Purposes	£2,775		
Id. in the £ yielded for Sanitary Purposes	£2,530		
Number of Persons per Acre (Density of Population)	35.8		
Birth Rate per 1,000 living	27.3		
Death Rate do	15.6		
Zymotic Death Rate per 1,000 living	1.7		
Phthisis Death Rate do	1.0		
Average Death Rate last 10 years	15.4		
Deaths of Children under I year of age to I,000 Births	122		
Percentage of Uncertified Deaths	0.27		
No. of Houses in the Borough, Dec. 31st, 1914	26,723		
Houses provided with Ashbins	18,850		
Houses provided with Ashpits	8,000		

All the houses are provided with w.c's. with the exception of about 20, which have privies. 13 of these are not used. The 7 are in places where at present w.c's. cannot be provided. There are 3 earth closets in Oxton.



TYPE C: THREE-STOREY FLATS



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TYPE B 466surft.

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Three Room — One Room — Two Room.

Balcomy

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B1 13×11 It had been decided that land in the North End of the own and known as the Gilbrook Estate, belonging to the orporation should be utilised as a site for working class lwellings, and Mr. Rees and I were asked to consult together and report to the Committee how we thought the land could pest be laid out, and a scheme has been formulated and generally approved by the Council. It is to be known as the

GILBROOK ESTATE HOUSING SCHEME.

This estate was laid out in 1886, and the streets made, sewered, curbed and channelled. These streets have been retained and the buildings planned and arranged to suit them.

The land is bounded on the South side by Norman Street and Upper Brassey Street, on the West by Lansdowne Road, on the North by Laird Street and on the East by the Laird Street Schools and playground, and the end of certain houses on the North side of Upper Brassey Street.

The site having been carefully surveyed and levels taken, by Mr. Rees the number and type of houses to be erected was settled according to the following Schedule, which gives the correct number of houses in the different blocks and flats.

From this it will be seen that we get :-

- 10 blocks containing 64 houses of Type A (small).
- 7 blocks containing 40 houses of Type A (large).
- 10 blocks containing 60 houses of Type B.
- 7 blocks of flats, containing 120 separate dwellings of the different Types C.
- 2 blocks of 15 shops of Type D.

Total number of dwellings .. 299

Type A (small) are shewn to consist of self-contained dwellings, having an average frontage of 16 feet, and a depth

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of 38 feet, including yard, but exclusive of fore court and passage. Each house contains on the

Ground floor ..Living Room 13 ft. by 11 ft. 3 ins.

Scullery, with Boiler, 7 ft. 10½ ins. by 8 ft.

Bathroom (separate), 6 ft. 9 ins. by 4 ft. 6 ins.

Food Store 4 ft. by 2 ft.

Store under Stairs.

Porch to Front Entrance.

First Floor . . Bedroom, front, 15 ft. 3 ins. by 9 ft. $10\frac{1}{2}$ ins. Bedroom, back, 11 ft. 3 ins. by 6 ft. 6 ins. Bedroom, back, 8 ft. by 8 ft. 6 ins. W.C., Coals, and Ashes in yard.

Type A (large) are self-contained dwellings, with an average frontage of 17 ft. 6 ins., and a depth of 38 ft., including yard, but exclusive of fore court and passage.

The accommodation is as follows:--

Ground Floor. Living Room, 13 ft. by 13 ft.

Scullery, with Boiler, 9 ft. by 7 ft. 10 ins.

Bathroom (separate), 6 ft. 6 ins. by 4 ft. 10 ins.

Larder food store, 4 ft. 6 ins. by 2 ft. 9 ins.

Store under Stairs.

Porch and Front Entrance.

First Floor..Bedroom, front, 16 ft. 10 ins. by 10 ft. 1 in. Bedroom, back, 8 ft. by 7 ft. 10½ ins. Bedroom, back, 8 ft. 6 ins. by 11 ft. W.C., Coals, and Ashbin in Yard.

Type B show the houses which are planned to face Brassey Street, Norman Street, and Lansdowne Road. They are larger than Type A, and contain an extra room, viz., Parlour with bay window. The frontage to each house is 17 ft. 6 ins., and the average depth, including yard and small garden plot in front but exclusive of passage, is 57 ft. 6 ins.

Each house contains on the

Ground Floor. Kitchen 14 ft. 9 ins. by 10 ft. 6 ins. Parlour 10 ft. 6 ins. by 10 ft. 3 ins. Scullery.

Food cupboard and store.

In the end houses Bathrooms are provided on Ground Floor.

First Floor..Bedroom 13 ft. 4 ins. by 10 ft. $4\frac{1}{2}$ ins. Bedroom 11 ft. 9 ins. by 10 ft. $4\frac{1}{2}$ ins. Bedroom 10 ft. by 6 ft.

An alternative plan will be carried out in certain of the Type B houses, in which the Bathroom will be on the upper floor, adjoining the back bedroom.

Flats, Type C.—Seven blocks of flats have been arranged for, six overlooking the playgrounds, and one at the junction of Norman Street and Lansdowne Road.

The two blocks of flats facing the playgrounds each contain 12 three-room houses, consisting of Living Room, two Bedrooms, and Scullery, and 6 two-room ones consisting of Living Room, Bedroom, and Scullery.

Four other blocks of flats each contain 6 three-room dwellings, 6 two-room, and 6 one-room.

And one block of flats provides for 12 three-room dwellings.

N.B.—The Scullery is not counted as a room in these flats.

The average sizes of rooms to each flat will be:—Living Room 13 ft. 6 ins. by 12 ft. 3 ins.

Bedroom 11 ft. 6 ins. by 10 ft. 6 ins.

Bedroom 12 ft. 3 ins. by 9 ft. 3 ins.

Scullery, with Boiler, Bath, and Sink.

A small yard with W.C. and Dust Shoot is provided for each house in the flat.

All the houses in the flats are entered from balconies, which are reached by a central stone staircase.

It is impossible in houses of this description to give a separate room for the bath as in self-contained houses.

The two blocks of ground, fronting Laird Street, have been reserved, giving sites for 15 shops with 18 ft. 6 in. frontages.

Each will have

Shop - - 17 ft. 8 ins. by 14 ft. Living Room - 14 ft. 2 ins. by 10 ft.

Scullery - - 10 ft. 9 ins. by 7 ft. 4 ins.

Sitting Room— 14 ft. by 10 ft. 6 ins. Bedroom – 13 ft. 9 ins by 9 ft.

Bedroom - 10 ft. 9 ins. by 6 ft. 9 ins.

Bathroom - 7 ft. 9 ins. by 5 ft. Attic - - 17 ft. 8 ins. by 12 ft. Coals, Ashbin, and W.C. in Yard.

All the self-contained houses will have back boiler to Kitchen fireplace for hot water supply, but a Central Heating Apparatus with boiler will be provided in an apartment in the basement of each block of flats, which will give a continuous supply of Hot Water and will be charged for in a slightly increased rental. These boilers will require the attention of one or more Keepers.

The question of lighting has been very carefully considered. Gas will be laid on to each of the houses, and pipes carried to a suitable position in Scullery for a small gas cooker or ring.

If Electricity can be obtained at a rate which would compete with Gas, including renewal of Lamps, &c., some of the better houses may be wired for same. Although a more costly installation, I consider it will be cleaner and healthier for the tenants than gas.

In the flats, the floors, staircases, and balconies will be fireproof throughout. The living rooms and bedrooms will have boarded floors, laid on coke breeze concrete, and the scullery and yards will be finished in cement.

The Cottages will have joist and boarded floors to living rooms and bedrooms, and cement finish to scullery, yards, &c.

The walls internally will be plastered, except bathrooms, larders, &c., which will be flat pointed for colour wash.

Where the Cottages are set back from building line, it is proposed to cover the space with concrete and throw the extra width into the footway, making a good open space in front of each block. Trees could be planted at intervals, and if properly cared for, would, I am sure, thrive and be much appreciated by tenants.

At the corner of Lansdowne Road and Norman Street, a circular shrubbery is shewn (enclosed in iron fencing), which will enhance the appearance of this part of the Estate.

Enclosed Playgrounds are shewn for boys and girls, with shelters and lavatories. The large Playground to Brassey Street will probably be reserved for young children.

These would be fitted with swings and see-saws, and partially planted.

Closely allied to the question of Housing is that of the "Personal Cleanliness of the Lower Working Classes and of the Submerged Tenth."

I am afraid there is no denying the fact that a large proportion of our lower working class population pass their lives from year to year without washing themselves in any way except, perhaps, their hands and faces daily. All doctors who have public hospitals under their control are constantly meeting these cases, and only a short time ago I had in hos-

pital the wife of a fairly well-to-do working man, a comparatively young woman too, who admitted she had not had a bath or been properly washed for over fourteen years. What her children would be like you can imagine, yet this is not an isolated or uncommon instance; and I will guarantee that if house to house inquiries were made, and true answers could be got, that the same story would be told by a large percentage of these people. Nor is it to be wondered at when we consider the sanitary conveniences of their houses, as we now find them existing in this country; indeed, on the contrary, it is easy to understand how such dirty habits are fostered and grow.

When we look at the houses in which such people live, consisting as they often do of only one, two, or at most four rooms, without any conveniences whatever in the form of baths, or indeed sometimes not even a sink and proper water supply, the difficulties to be overcome before a bath or proper cleanliness can be obtained are almost insuperable; and these evils, which appear to have become almost inherent in the social life of the poor, depend far less on the depravity of the people than on their ignorance, and the total lack of any handy means for personal washing.

A family will probably consist of the father, mother, and perhaps four to seven children of all ages and both sexes; it will be readily imagined, therefore, with what difficulty a man or his wife, or a grown-up son or daughter, would obtain a proper bath in a two or three-roomed cottage, or even a four-roomed house, under such circumstances, with any pretence to the commonest laws of decency; whilst it is a fact that in very few instances will they be in possession of any suitable vessel in which a bath can be obtained, or hot water provided. Is it surprising, therefore, that they get out ofthe habit of washing, until in the end they get, as we know they do, positively afraid of a bath, lest it should kill them.

The sequel to all this, of course, is filthy persons, filthy clothes, beds and bedding, and all the resulting filth diseases, such as the verminous conditions and typhus fever, which thrive so splendidly amongst this class of population. It is difficult to ascertain the extent to which the health of the people suffers from this want of proper cleanliness; but one must believe that life under such conditions cannot be conducive to health, either of mind or of body. It becomes therefore a question of economics, not less than of sanitary importance, for it is obvious that the remote effects of such sickness as this filthy condition engenders, must be disastrous to the health and physical well-being of the people, and more especially of the children brought up under such conditions, and must seriously impair their capacity for labour.

How, then, are we going to combat the persistence of these adverse influences? They are not like ordinary nuisances, summarily removable by legislative procedure, and it seems to me that public baths and wash-houses (of which I spoke in my last annual report), easily accessible, and at little or no cost to the poor, is the only way in which at present we can hope to get improvement in this condition of personal cleanliness.

Of course, at first there would be considerable difficulty in getting the persons for whom they are intended to avail themselves of them; but time would gradually remove difficulties of this description.

In Edinburgh, where a system of public wash-houses has been started, which has proved eminently satisfactory, they have apparently solved two of the most difficult problems of the present day, viz., how to get people to use public wash-houses, and how to get them to wash themselves.

In their first attempts, the Edinburgh Council were unsuccessful, because they went on the usual lines of providing a wash-house with apparatus for washing clothes and nothing more, and the scheme had to be abandoned. Their second attempt, however, has been a great success. My friend, Sir James Russell, Chairman of the Sanitary Committee of the City Council, and formerly Lord Provost, has given me the key to the secret of their success.

He says, "in their present washing-houses, which are placed in the midst of a poor population, they have a large hall, round which there are cells containing earthenware basins let into a concrete floor, with discharge plugs, and hot and cold water. The people can here undress, and stand in these basins to have a wash, the hall being fitted with warm air—a very important feature, as they would not be got to undress and bathe in a cold room."

At present these places are only connected with the general wash-houses for clothes washing, the charge per hour paying both for the use of the clothes-washing apparatus, and for the baths afterwards. They find the women readily avail themselves of the opportunity for washing, and there seems to be no reason why the bath should not be allowed to be taken quite irrespective of the clothes washing; and in my opinion such places ought to be provided free to the poor, and every inducement given them to come and make themselves and their children clean.

In Edinburgh, also, there is an association for improving the dwellings of the poor, of which, also, Sir James Russell is chairman. In the tenements built by this association, each flat has a proper wash-house with all the necessary apparatus at the disposal of the families living in the flat in rotation. The tenants prefer this arrangement to using the more distant public wash-house, and they save the charge per hour made in them. The tenants are mostly very poor—in fact, were slum-dwellers. In connection with and adjoining each wash-house there is a wooden plunge-bath, which is in much request. The keys of these washing places

pass in rotation to the next tenant, or to the tenant who is caretaker, as the case may be.

Here, then, we have the germ of reform which, if steadily nurtured, may lead in the future to a very great improvement in the personal sanitation (if I may so call it) of the lower classes. I think that in the case of new houses, it should be made compulsory in all building regulations, that to every house, or to all terraces or blocks of houses, builders should provide, either by outbuilding or by proper additions of the ordinary requirements, suitable places in which cleanliness, not only of the person, but of the household necessaries, can be obtained.

Of course, we shall have **to** meet the difficulties as we now find them existing in the homes of the working-classes to-day, and the only way in which this can be done for old houses, seems to be the establishment of *pul·lic* wash-houses on lines similar to those at present so successfully carried out in Edinburgh, and I would therefore strongly urge upon the Council the adoption of such places in connection with the Public Baths as mentioned in my last year's report (page 9).

Closely allied to Municipal Housing is the question of providing a

MUNICIPAL LODGING HOUSE.

In 1903 I made a report on Municipal Lodging Houses, and I again referred to the matter in my last two Annual Reports. I was pleased, therefore, when on 'the 13th December, 1913, the Council passed a resolution instructing me to report further upon the question of erecting a "Municipal Lodging House." And following upon this on the 16th June, 1914, the Council authorised the Chairman of the Health Committee and myself to visit Glasgow and see what had been done there in this very important matter; subsequently, on October 6th, 1914, we presented the following:—

REPORT ON A VISIT TO THE GLASGOW FAMILY HOMES, &c.

To the Members of the Health Committee.

GENTLEMEN,

In accordance with your request we visited Glasgow on the 10th September and made an inspection of the Workmen's Family Home, and the Lodging Houses and some blocks of houses for the Working Classes in that City. Mr. Councillor Rowlands also (unofficially) accompanied us and joins us in this report.

The Family Home is situated in St. Andrew Street off the Salt Market, one of the poorest parts of the city and is in a certain way a development of the lodging-house provisions. It was erected in 1896 to meet, if possible, the requirements of the single man of the labouring class and to help him if possible to obtain clean, comfortable and cheap accommodation in lodgings—but more particularly to meet the case of the wage-earning widower who is left with several young children to keep and look after.

His is a particularly hard case; his wages have to be spent in providing food, clothing and shelter for his mother-less children, and anything that remains after these primary expenses are met, is usually insufficient to enable the father to engage the services of a nurse or housekeeper at the most meagre remuneration. The result is that, when the father is at work, the children have either to be locked in or out of the dwelling, and their food provided by the good offices of some kindly neighbour.

It was especially to meet the needs of this class of men that the home was opened.

It contains 160 single bedrooms, plainly furnished, each capable of accommodating one adult and three children; a common dining-hall and kitchen with gas fires and steam-

jacketed boilers, etc., necessary for all the cooking requirements. There are also a nursery, recreation rooms, library, baths and lavatories, and the building throughout is lighted by electricity and warmed by a hot-water heating installation.

The rent charges for each of these bedrooms, including heating, lighting and cleaning, with the use of dining and recreation rooms and other priveleges of the homes is 5/6 per week, payable in advance. If the number of children in a family is more than three, accommodation is found for the additional children beyond that number in a common dormitory, at a charge of 8d. per week extra per child. The children are boarded at an average charge of 1/10 per week for each child.

The Home is managed by a Superintendent and a Matron, with a staff of nurses and servants.

Servants supply their meals, attend to their cleanliness, and see that those of school age are duly sent to school. Nurses are provided to take care of those under school age, and generally the Superintendent and the Matron act during the daily absence of the father in "loco parentis."

The children are solely under the control of these two officials from the time the parent leaves for work in the morning until he returns in the evening.

Regular meals are cooked and supplied to the adult residents at the lowest possible charges.

Breakfast, including Ham and Egg, bread butter and tea, 5d.

Dinner of Soup, Beef and Potatoes, milk pudding, 5d. Tea. Plain tea, with scones, butter, jam or jelly and tea, 4d.

If he comes in later he can get extra things for 1d. or 2d., according to what he wants, and for 3d. either beef and potatoes or ham and eggs. 1d. for pudding or soup with with bread.

The children who are boarded at 1/10 per week as stated above obtain for this daily

Breakfast, consisting of porridge and milk, tea, bread and butter.

Dinner, a basin of soup and bread.

Tea, tea and bread and butter, and for 1d. extra he can get jam.

The charge however varies slightly

If a man has only one child he pays 2/- per week for it, for two children 1/10 each, for three or more children 1/8 each.

The 5/6 a week paid by the father includes bed and bed clothes, cupboard, table, 2 chairs, bath, and towel for children.

A man cannot have more than three children in one room with him and no child over 10 years. For other children not included in this, 8d. per week extra for each child not in the room.

In case of any child developing symptoms of disease, the Superintendent advises the father to call in medical assistance, and, in the event of the parent's failure, calls an independent medical practitioner at the parent's expense. If cases of infectious disease appear, the Medical Officer of Health can at once certify the patient for removal to the Infectious Diseases Hospital.

The Home is run at an annual loss, the deficit last year being about £1,000.

As an offset against this a great gain is to be found in maintaining the health, and the moral aspect of the surroundings of the children—instead of being neglected, dirty, illfed, at a loose end, running about the streets and subject to every kind of adverse influence which such conditions entail—the children are brought up under most favourable conditions, well-housed and well-fed, amusement found for them in their spare hours, some love and friendly care bestowed upon them by the nurses and the whole aspect of their lives turned from a wilderness into a happy, respectable and cleanly youth which has its effect on the subsequent citizen of later life. It is impossible to appraise the value of such upbringing on the ultimate good to the child and the community and it is impossible to estimate how many of the children thus cared for would under other circumstances have drifted into pauperism and crime—and thus have been a charge on the community.

We were very much struck with this aspect of the subject, and it is for the Committee to judge how far some loss on the working of the establishment is compensated for by the other side of the picture. The loss incurred on the home at Glasgow was largely due to the great initial cost of the land and building. The revenue of last year was £3,354 10s., and the working expenses £3,403, a loss of only £48, but interest and sinking fund makes up the difference.

The site was valued at £6,732 and the buildings at £17,628 a total cost of £24,360, which at 1% interest equals £960.

We also inspected the Municipal Lodging Houses, but although they are well managed and convenient places there were no special features about them calling for remark.

As regards the houses of the working classes which have been erected by the Glasgow Corporation we were kindly shown several different blocks including those most recently erected at Kenny Hill. They are all erected on the Tenement system in accordance with the usual mode of life amongst the working classes of the large towns of Scotland; and in some ways they are not quite applicable to English life although possessing many admirable features—an exception

might be made in the case of the single-room dwelling where their arrangement of bed-closet, scullery-corner, and dwelling room portion in one room was excellent. In other respects we think that the housing schemes in Liverpool meet the requirements of English life better than any we saw in Glasgow.

We are, Gentlemen,
Faithfully yours,

(Signed) E. G. MASON, Chairman.
D. R. ROWLANDS.
R. SYDNEY MARSDEN, M.O.H.

This was referred to the Housing Committee

Another subject which occupied the attention of the Committee for a considerable time was that of

MATERNITY AND CHILD WELFARE.

And in relation to this matter I made a report to the Committee on the following lines:—

In the circular letter from the Local Government Board, dated 30th July, 1914, relative to the above matter.

The Board point out that an estimate has been laid before Parliament for a grant, to be distributed by the Board, in aid of the expenditure of Local Authorities in respect of Institutions or other provision for maternity and child welfare. This grant, if voted by Parliament, will be made in aid of expenditure in respect of Clinics, Dispensaries, or other Institutions primarily concerned with the provision of medical and surgical advice and treatment, as well as in respect of the salaries of health visitors and other officers engaged for this work.

Up to the present, Local Authorities, in their infant welfare work, have concerned themselves chiefly with the child in its first year of life. The Board now considers that the subject should be dealt with on a more comprehensive basis, dealing with the whole period from birth until the time the child enters school. It suggests that work should be undertaken in two directions:—

- 1st. The securing of improved ante-natal and natal conditions;
- 2nd. The continuing of the work in relation to children beyond the first year of life.

The accompanying Memorandum sets out fully the arrangements which the Board thinks should be carried out.

(COPY)
MEMORANDUM.

MATERNITY AND CHILD WELFARE.

A complete scheme would comprise the following elements, each of which will, in this connection, be organised in its direct bearing on infantile health.

- 1. Arrangements for the local supervision of Midwives.
- 2. Arrangements for—

ANTE-NATAL.

- (1) An Antenatal Clinic for expectant mothers.
- (2) The home visiting of expectant mothers.
- (3) A Maternity Hospital or beds at a hospital, in which complicated cases of pregnancy can receive treatment.
- 3. Arrangements for—

NATAL.

- (1) Such assistance as may be needed to ensure the mother having skilled and prompt attendance during confinement at home.
- (2) The confinement of sick women, including women having contracted pelvis or suffering from any other condition involving danger to the mother or infant, at a hospital.

4. Arrangements for-

POST-NATAL.

- (1) The treatment in a hospital of complications arising after parturition, whether in the mother or in the infant.
- (2) The provision of systematic advice and treatment for infants at a Baby Clinic or Infant Dispensary.
- (3) The continuance of these Clinics and Dispensaries, so as to be available for children up to the age when they are entered on a school register, *i.e.*, the register of a Public Elementary School, Nursery School, Crèche, Day Nursery, School for Mothers, or other school.
- (4) The systematic home visitation of infants and of children not on a school register as above defined.

LOCAL GOVERNMENT BOARD, WHITEHALL, S.W., July, 1914.

It will be obvious to the Committee that to do this work as suggested, it will be necessary that a special Sub-Department be created for the purpose, in which clinical advice can be given, and a "mothers' welcome" and infants' dispensary can be carried on.

There is no place at present under the control of the Committee available for such work, and premises would have to be obtained and adapted to the purposes and requirements. Arrangements would also have to be made for beds at the Maternity or other Hospital, in which complicated cases of pregnancy could receive treatment. The number of Health Visitors would have to be increased if the systematic home visitation of infants and of children not on a school reigster, as above defined, has to be carried out.

I would suggest therefore that the premises should be purchased for this purpose, in a central position, and close proximity to the Town Hall, so that the work can easily and conveniently be supervised by me.

There would have to be a waiting room and a room for baby clinic, and dispensary treatment.

Also rooms for doctor's consulting room, nurses' work and cloak rooms, and a separate waiting room for women seeking special advice, and a room for the chief female inspector; in addition to these, rooms for the inspector of midwives, and the clerical and record rooms, and also for stores, &c., would be required.

As regards the work at the Baby Clinic and Dispensary, Here mothers will receive first aid and advice in the feeding Records will be taken of their and care of their children. home conditions, and where physical defects in the children are found requiring medical treatment they will be brought under the notice of the Supervising Medical Officer and will be referred as far as possible to their own medical attendant for treatment, who will also be informed of the advice given, every care being taken to work harmoniously with the medical profession. In cases where the people are too poor to obtain the necessary attention they will be seen by the Medical Officer, and such treatment and extra nourishment will be given at the Dispensary as he may advise, but in any case only such treatment and extra nourishment will be given as is necessary to safeguard the welfare of the child during its growth in the early years of life.

Some time ago when I was visiting some of these so-called "Mothers' Welcomes" I was greatly struck with the influence which they had upon the minds of the women attending.

Although conducted differently in different places still they are all run on the same general principles.

The poorest mothers and those with sickly children are induced to come to the "Mothers' Welcome" and there they are received with considerable kindness, their babies examined by a medical man or a competently trained nurse and advice given as to feeding, clothing, etc., as above described, but that is not the chief advantage, the babies are weighed from week to week and their progress recorded in a register-it is this part of the process, I noticed, which interested the mothers most. They compared notes with each other as to the weights and progressive growth of their children, rivalry came into play, and with that, an ambition to get their babies better and finer than their neighboursa new interest in connection with the child is created and with it a growth of parental affection and a feeling of desire to give up something for the good of the child. No longer is the infant left in the cradle with a bottle of milk to overstuff its stomach, until it vomits it back, whilst the mother goes out to the theatre, or gala or other amusement. No, she has been told if her child is to grow properly this mus'n't be done, so she foregoes the exitement in the interest for her child, and she and it and the nation reaps the benefit and reward.

I am satisfied from what I have seen that these places can do an immense amount of good.

"FOLLOWING UP."

The present systematic home visitation to all mothers after notification of a birth will be continued, but instead of stopping at the end of the first year of life, the child's welfare and after-care will be watched and the homes visited periodically from the early years up to the child reaching school age.

Friendly relations will be maintained with the parents during this period, and the work carried on in such a manner as not to be inquisitorial, but that the mothers may feel that the nurses and the Institution are a real help to them. Of course where children are in good homes, properly housed, clothed, and fed, and doing well, the visit will be merely nominal, and considerable discretion used not to give offence, but in the poorer cases an effort will be made to induce the mothers to bring the children to the Dispensary so that their progress, development, and care, can be watched and recorded, and, where necessary, assisted in various ways.

It is hoped that by doing this many children who now suffer from want and neglect in their early childhood, and thus become wrecks and a charge on the community in later life, may be saved and converted into healthy men and women, better able to support themselves afterwards in the struggles of life.

"PREGNANCY AND PRE-NATAL CONDITIONS."

In regard to Pregnancy and Pre-Natal conditions, women will be encouraged to come and seek advice from the Special Dispensary Medical Officer on Pre-Natal troubles or possible complications of Pregnancy, and as far as possible their own medical attendant will be consulted in the first instance; nothing being done that could in any way introduce difficulties between the patient and the family doctor.

In complicated cases, requiring special care and treatment, the women will be sent into the Maternity or other Hospital, for treatment in the scpeial beds which you will probably have reserved for you in the Institution.

Treatment in Hospital will also be given, where necessary, of complications arising in childbirth, whether in the mother or the infant.

By these means it is hoped that we shall be able materially to help forward the work of Maternity and Child Welfare in the manner suggested, and so earnestly pressed by the Government. The Scheme for dealing with this work was submitted to the Council by the Health Committee, but its consideration was deferred for the present.

SPECIAL WORK DONE IN CONSEQUENCE OF THE WAR.

A good deal of extra work has had to be done by the Health Department in connection with the outbreak of the War and the opening of a number of Schools, dwelling-houses and other buildings for Military purposes, all of which have had to be examined and reported upon as to their sanitary arrangements and conditions, and where necessary put into proper order.

The premises have also been frequently and regularly inspected.

Special arrangements have been made for the frequent removal of the domestic refuse.

The following is a summary of the work done in this connection by the Department, viz:—

Schools examine	ed before	being	occupied by troops	5
Houses	do.	do.	do	11
Other premises	do.	do.	do	2
1 1000 1000				18
				10

The number of visits paid by the District Sanitary Inspectors to the above premises was 464, and a very large number of visits of inspection have also been made by the Chief Inspector of Nuisances and myself.

The total number of articles of bedding, clothing, etc., disinfected for the Military Authorities during 1914 was 7,002. A large proportion of these being in a verminous condition.

In the succeeding pages of this report will be found details of the work carried on by the Public Health Department, together with the vital and mortal statistics of the Borough during the year under consideration, as follows:—

DETAILED STATEMENT OF THE WORK OF THE PUBLIC HEATLH DEPARTMENT DURING 1914.

Ordinary Sanitary Operations.—The ordinary sanitary operations of the Department have continued to receive unremitting attention. House-to-house inspections of the cottage property in the Borough have been regularly made. Gulleys and passage drains have been periodically cleansed, public fountains, &c., have been scoured and kept in order, and the systematic removal of ashpit and house refuse at stated intervals has been carefully superintended.

Summary of Nuisances, &c.—The summary of nuisances investigated and dealt with during 1914, is as follows:—

Number of nuisances reported 9	013
Number of formal notices given 2	689
Number abated after formal notice and without	
proceedings 9	013
Number of cases in which proceedings had to be	
taken for ordinary nuisances	nil
Number abated after proceedings	nil
House disinfecting notices	398
Nuisances at houses let in lodgings	152
Nuisances at common lodging houses	102
Notices for cleansing of filthy houses	39

A brief statement of the other measures taken in 1914 for orrecting or getting rid of whatever appeared to be prejudicial to health is subjoined.

Sanitary defects reported by the Inspectors and	
referred for the action of the Borough	
Surveyor	500
Matters reported to Waer Engineer	264
Matters reported to Borough Treasurer	90
Houses or parts of houses specially disinfected	
by formalin or other disinfectants	7 80
Notice to whitewash and efficiently cleanse	
milk-houses, cowsheds and dairies, given	
and complied with	416
Offensive privies abolished (3) and conversions	
into water-closets (1)	4
Parcels of infected bedding and clothes disin-	
fected at the Disinfecting House	850
Parcels of infected or discarded bedding and	
clothes destroyed	5 50
Carcases of dogs and cats, &c., removed from	
pools or waste land and buried	59
Deposits of putrid fish and other objectionable	
refuse removed	^2
Total	3515
World of American Corporation	
In addition to the above, the following work	has beer
ne :—	
Number of excavations made for the purpose of	
testing the condition of house drains	161
Number of smoke tests applied to drains of	
premises reconstructed under the super-	
vision of this Department	210
Number of water tests applied to drains	186
Number of smoke tests applied to the drains	
of new buildings, in conjunction with	
the Persuch Surveyor's Department	218

do

Every effort is made to keep down public or private nuisances dangerous to the community, which tends to the advantage of the public, both as regards health and comfort.

District Inspections.—The following is a statement of the work done by the District Inspectors of Nuisances and the Disinfecting Inspector during 1914.

Number of Visits

OPT DOE YORK	and Revisits made Insanitary Proper
District I.—Inspector Croshaw	5516
" II.— " Lee	4107
" III.— " H. T. Taylor	4115
,, IV.— ,, W. H. Tilston	5709
Disinfecting Inspector Isaac Taylor	4923
Total	24370

Smoke Nuisances.—Observations were taken of the smoke emitted from the factory and other chimneys of the Borough during the year 1914, 2 notices were served for the abatement of smoke nuisances.

Inspection of School Premises.

Working in conjunction with the Education Department, I had 35 schools specially examined by the District Inspectors and reported thereon to the Education Committee.

Inspection of Common Lodging Houses and Houses Let in Lodgings.

The following is a statement of the work performed during the year 1914 by the Inspector of Common Lodging Houses and Houses let in Lodgings, viz.:—

REGISTERED	Common	Lodgii	NG HOU	SES.	
Day Inspections			.170		4398
Night Inspections					595
The total number of	of registe	ered loc	lging h	ouses	is 19.
REGISTERED	Houses	LET IN	Longi	NGS.	
Day Inspections					33 09
Night Inspections					374

The total number of houses let in lodgings on the register at the end of 1914 was 719.

Corporation Tenement Dwellings.—382 visits were made during the year by the Inspector of Lodging Houses, &c., and 440 nuisances were reported, which have been abated.

FACTORY AND WORKSHOP ACTS, 1901 and 1907.

In connection with the carrying out of the provisions of these Acts, the following is a statement of the work done by the Inspector during the year, viz.:—

- 1130 visits have been made to workshops.
- 525 visits have been made to bakehouses.
- 21 visits have been made to workplaces.
 - 49 visits have been made to homeworkers' premises.
- 44 workshops, including 6 bakehouses, have been placed on the register during the year, making a total of 442 up to the end of 1914, of which 64 are bakehouses and 48 are confectioners' shops.
 - 23 workshops have been closed.
 - **3** workshops have been transferred to more suitable premises.
 - 110 nuisances in connection with workshops have been reported and abated.
 - 36 notices have been served for the abatement of nuisances arising out of defective drainage, and 12 for inefficient ventilation.
 - 28 notices to cleanse and limewash the workshops have been served and complied with.
 - 414 occupiers of workshops have limewashed their premises under inspection, but without waiting for the formal notice.
 - No case of overcrowding has been reported during the year.
 - 12 failures to affix abstract of the Factory and Workshops Act (s. 133) have been reported and dealt with.

Lists of out-workers have been carefully kept, and notices in the form prescribed by the Secretary of State, as given in my Report for 1892 (pp. 57 and 58), have been served when necessary.

Laundries.—157 visits were made during the year to the 46 laundries at present on the register.

Bakehouses.—The duties involved in carrying out the provisions of the Acts relating to the sanitary condition of bakehouses have been put under a special Inspector, and during the year 525 visits have been made to bakehouses.

There has been a very great improvement secured by this systematic inspection.

SHOPS ACTS, 1912 and 1913.

(Which repeal the Shops Regulations Acts, 1892—1911.)

The total number of visits paid to the various shops under the provisions of the above Acts and orders made thereunder during the year was 8,119.

The particulars respecting the various proceedings and prosecutions taken under these Acts and Orders during the year are as follows, viz.:—

48 infringements were reported and 39 letters of warning sent in connection therewith, prosecutions being taken in the remaining 7 cases, with the following results:—

For failing to close the shops for the sale of certain articles on the Weekly Half-holiday. Fine. Costs.

Ditto	Ditto	• 10/-	6/6
Ditto	Ditto	20/-	6/6
Ditto	Ditto	20/-	6/6
Ditto	Ditto	20/-	6/6
Ditto	Ditto	40/-	6/6
Ditto	Ditto	Dism	issed.
Ditto	Ditto	5/-	6/6
	•		

A Petition having been received from a number of shop-keepers requesting the Council to make an Order extending the Provisions of Section 4 of the Shops Act, 1912, to their class of shops, *i.e.*, Pork Butchers; the signatures to the Petition were verified and after consideration and compliance with the provisions of the Act, the Health Committee on the 6th October, 1914, decided to recommend the Council to make the following Order, viz.:—

COUNTY BOROUGH OF BIRKENHEAD.

SHOPS ACT, 1912.

NOTICE IS HEREBY GIVEN that an Order, a copy of which is hereunder set out, has been made by the Town Council and confirmed by the Secretary of State, as appears by a confirmation appended to such Order, a copy of which confirmation is also set out hereunder:—

Dated this 13th day of February, 1915. (Signed) J. FEARNLEY,

Town Clerk.

COUNT BOROUGH OF BIRKENHEAD. SHOPS ACT, 1912.

THE BIRKENHEAD HALF-HOLIDAY EXTENSION (No. 1) ORDER, 1914.

THE TOWN COUNCIL of the County Borough of Birkenhead in pursuance of the powers conferred upon them by the Shops Act, 1912, and after due compliance with its provisions, DO HEREBY ORDER AS FOLLOWS:—

- 1. THIS ORDER may be cited as the "Birkenhead Half-Holiday Extension (No. 1) Order, 1914."
- 2. THE PROVISIONS of Section 4 of the Act are hereby extended to the undermentioned class of shops in the Borough of Birkenhead namely:—

PORK BUTCHERS SHOPS.

3. ALL SUCH SHOPS shall be closed for the weekly half-holiday at 1 p.m. on Monday throughout the year; PROVIDED THAT any Shopkeeper may substitute Saturday for Monday on affixing a notice to that effect in his shop.

AS WITNESS the Corporate Common Seal of the Mayor, Aldermen and Burgesses of the said Borough the Sixth day of November, 1914.

THE COMMON SEAL of the Mayor, Aldermen and Burgesses of the Borough of Birkenhead was hereunto affixed in the presence of

(Signed) JAMES MOON

Mayor. (LS

J. FEARNLEY, Town Clerk.

(NOTE:—It is provided by Section 4 (5) of the Act that if a shop is closed throughout the whole of a Bank Holiday and the Bank Holiday does not fall on the day fixed fur the weekly half-holiday, the shopkeeper may keep his shop open either on the half-holiday before or on the half-holiday after the Bank Holiday.

In pursuance of Sections 4 (6) and 6 (2) of the Shops Act, 1912, I hereby confirm the foregoing Order.

(Signed) R. McKENNA,

One of His Majesty's Principal Secretaries of State.

101 0000 (51,000

Whitehall, 3rd February, 1915.

This recommendation was agreed to by the Council on the 28th October, 1914, and on the 3rd February, 1915, the Order was confirmed by the Home Secretary.

Administration of the Factory and Workshop Acts, 1901 and 1907,

IN CONNECTION WITH

Factories, Workshops, Laundries Workplaces and Homework.

I. INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

the Marie and the Application of	Number of					
Premises (1)	Inspections.	Written Notices. (3)	Prosecutions.			
Factories (Including Factory Laundries) Workshops (Including Workshop Laundries) Workplaces (Other than Outworkers' premises included in Part 3 of this Report)	1812	79 —	=			
Total	1839	80	_			

2.—DEFECTS FOUND.

w1911	Num	ber of De	efects	Number
Particulars. (1)	Found (2)	Remed'd	Referred H.M. Inspect'r (4)	tions.
Nuisances under the Public Health Acts :—* Want of cleanliness Want of ventilation Overcrowding Want of drainage of floors Other nuisances	=	28 12 — 16	=	=======================================
Sanitary accommodation insufficient unsuitable or defective not separate for sexes	20	20	_ _ _	- -
Offences under the Factory and Workshop Act:— Illegal occupation of underground bakehouse (s. 101) Breach of special sanitary requirements for bakehouses (ss. 97 to 100). Other offences (excluding offences relating to	34	34	_	_ _
outwork which are included in Part 3 of this Report).		110		_

^{*} Including those specified in sections 2, 3, 7, and 8 of the Factory and Workshop Acts as remediable under the Public Health Acts.

	FECTED 5. 110.	suoi su (0	9, 110 ectios	Pros S)	(16)		1	1	1	1	v the the duty there ately)		Number. (2)	7	Reports (of action taken) sent were attended to to H.M. Inspector at the time.	None.						
	UTWORK IN INFECTE PREMISES. SECTIONS 109, 110.	nade)).	ors m	ь т О 2)	(15)		Ì	I	1		to show only, but a done. tutory ers, as proxims outwor		Nm		These were at at the at the	N.						
	OUTWORK IN INFECTED PREMISES. SECTIONS 109, 110.	.es.	stanc	su I	(14)		61	!	1	61	a way as bal class of the sta the sta n number ly be (ap			t (s. 133) spector	ken) sent were attende							
	WHOLE- SES, 8.	'suoi	gnoəs	Pros	(13)		i	1	1	1	in such and that this that this ctly with y be every will usual uployer the contract of the co	MATTERS.		f Factories :— ry and Workshop Act (s. 133 Notified by H.M. Inspector.	eports(ofaction tak to H.M. Inspector							
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			t t	ists.					TABLE OF		l, and su te case n thould b uployers column ures in c ust lists	50	CI	M. Inspectof the	thlic He the Fact t (s. 5)	luring th						
	107.	Prosecutions,	Failin	send lists.	(10)			10	00	1	column 1 or 5 as the cotnote a those en tries in C The figurant Aug	100	1-11	ix Abstra	inder the Public Health out not under the Factory Forkshop Act (s. 5)	Bakehou granted d						
WORK		Pros	Pros Failing to	Failing to keep or	permit inspection of lists.	(6)		I	ı	I	1	INSTRUCTIONS.—* If an occupier gives out work of more than one of the classes specified in column 1, and subdivides his list in such a way as to show the ber of workers in each class of work, the list should be included among those in column 2 (or 5 as the case may be) against the principal class only, but the vorkers should be assigned in cloumn 3 and 4 to 6 and 7) into their respective classes. A footnote should be added to show that this has been done. I the figures required in column 2. 3 and 4 are the total number of the lists received from those employers who comply strictly with the statutory dity inding two lists each year and of the entries of names of outworkers in those lists. The entries in column 2 must necessarily be even numbers, as there be two lists for each employer—in some previous returns odd numbers have been inserted. The figures in columns 3 and 4 will usually be (approximately) also for the number of individual outworkers whose names are given, since in the February and August lists of the same employer the same outworker's	7 6	300	Matters notified to H.M. Inspector of Factories:— Failure to affix Abstract of the Factory and Workshop Act (s. 133) Action taken in matters referred (Notified by H.M. Inspector., Aby H.M. Inspector as remedi.	able under the Public Health Acts, but not under the Factory and Workshop Act (s. 5)	Underground Bakehouses (a. 101) :— Certificates granted during the year					
	Section 1	rved g or g or sts.	Notices served on Occupiers as to keeping or sending lists.				1	1		1	classes sp those in c pective cla c lists rece t those lists have been ice in the	210	100	Mat F		U Cr						
3.—HOME		Lists received from Employers. Sending twice in the year.			ſ		63	T	4	67	one of the among their restriction or the orkers in numbers (iven, sire).	100	Number. (2).	64	46	442						
3.	Kers' I		oyers.	oyers.	oyers.	oyers.	yers.	oyers.	oyers.	Outworkers. Con- Work-	(9)		ı	4,	ol.	ıl	re than e include 17) into otal num s of outwarms odd nes are g	-Š.	tool			er
	OUTWORKERS' LISTS,		Sending o	Lists.	(5)		-	I	, I	-1	should be considered to the co	KSHOF	the year			on Regist						
		seived fr	he year.	kers.† Work- men.	(4)		93	1	1	93	s out wo	WOR	e end of	J		rkshops o						
		Lists re	Lists ret	Outworkers. Con- Work	(3)		45	4	1	42	upier give s of work n cloumn lumns 2, and of th ver—in se	4.—REGISTERED WORKSHOPS.	131) at th			Total number of workshops on Register						
			Sending	Lists.†	(2)		40	1	1.	40	If an occasion of the second o	GISTE	ister (s. 1	S	kshops	otal num						
		VORK.				1	:	ashing	olstery		orkers in tould be a ures required lists eact to lore act number of number of the period of the peri	4.—RE	n the Reg	Bakehouses	Laundries	H						
		NATURE OF WORE.			(1)	Wearing Apparel-	(1) making, etc.	(2) cleaning & washing	Furniture & upholstery	TOTAL	INSTRUCTIONS.—* If an occupier gives out work of more than one of the classes specified in column 1, and subdivides his list in such a way as to show the number of workers in each class of work, the list should be included among those in column 2 (or 5 as the case may be) against the principal class only, but the outworkers should be assigned in cloumn 3 and 4 the fort sepective classes. A footnote should be abded to show that this has been done. † The figures required in columns 2, 3 and 4 are the total number of the lists received from those employers who comply strictly with the statutory dity of sending two lists each year and of the entries of names of outworkers in those lists. The entries in column 2 must necessarily be even numbers, as there will be two lists ior each employer—in some previous returns odd numbers have been inserted. The figures in columns 3 and 4 will usually be (approximately) name will often be repeated.		Workshops on the Register (s. 131) at the end of the year.		rkshops, rested here	Impo mod mod mod						

The Midwives Act, 1902.

In connection with the carrying out of the provisions of this Act, a great deal of work was done during the year: not only in visiting the homes of midwives, but in interviewing them in connection with their work and explaining the provisions of the Act and the rules laid down for their guidance by the Central Midwives Board.

During the year 1914, 82 midwives entered their names on the local register as practising in the borough, being 6 more than last year, but names are constantly being added to the roll. Of the above 76, two of them subsequently left the district, and their names have been removed from the register accordingly. 5 midwives gave notice of change of address, and one had her name taken off the register at her own request.

During the year I received ten complaints against midwives. All of these were carefully investigated and the midwives in question interviewed. The Inspector also interviewed 55 midwives on minor matters where no complaint had been made.

Notices were received from midwives of 74 still births (45 male and 29 female) having occurred; and 345 cases were notified in which medical aid had been called in, as against 285 last year.

The Inspector of midwives paid 285 visits of inspection to midwives, and I also inspected the bags and registers of a small number.

I received great assistance in connection with enquiries under this Act from the Female Health Visitors of the Birkenhead Society for the Prevention of Cruelty to Children, who work in conjunction with the Health Department by special arrangement, and a number of reports were made by them to me in important cases.

41 cases of unnotified births occurred. 26 of these were attended by medical practioners, 3 by certified midwives, 1 by an uncertified handy-woman, and 11 by the Maternity Hospital Authorities.

Notification of Births Act, 1907.

This Act was adopted in the Borough on January 3rd, 1912, and three women Health Visitors were appointed in connection with carrying out the work.

No. of births notified during the year	3481
No. of births attended by medical practitioners	506
No. of births attended by midwives	2760
No. of births attended in Maternity Hospital	189
No. of births attended in Union Infirmary	26
Total number of stillbirths for the year	120
Of these Medical Practitioners notified	27
Maternity Hospital notified	17
Union Infirmary notified	2
Midwives notified	74

The following is a record of the cases visited by the women Health Visitors during 1914, viz.:—

3396 first visits were paid to the homes.

5699 re-visits were made.

4073 visits were made to children over 1 year and under 5 years.

2923 infants were found to be breast fed.

84 infants were breast and artificially fed.

139 infants were fed on artificial foods.

Medical attention was advised in 234 cases and 76 cases of ophthalmia and 139 cases of slight inflammation of the eyes were carefully watched and recovery resulted in each case.

60 cases of Ophthalmia Neoatorum were notified.

146 enquiries were made in illness from diarrhœa, and also in 103 cases where death from diarrhœa had occurred.

90 cases of nuisances were reported to the Nuisance Department. 39 cases were referred to the Charity Organisation Society, and 22 cases reported to the Society for the Prevention of Cruelty to Children.

17 cases were sent to the school clinic and 5 to the Tuberculosis Dispensary.

The Ladies' Committee of the Society for Prevention of Cruelty to Children with whom we work jointly in regard to the Health Visitors, have allowed extra nourishment in the case of 133 children, and milk and cereals to 64 nursing mothers.

10 children were sent to a convalescent home.

170 cases were visited for the Soldiers' and Sailors' Families' Association.

Infectious Diseases (Prevention) Act, 1890.

107 Public Library and 12 School Library books were collected from infected houses and disinfected, and one book was destroyed.

Cleansing of Persons Act, 1897.

3 persons were cleansed under the provisions of this Act, at the special bath provided for this purpose at the disinfecting station in Corporation Road, and their clothing disinfected.

Seizure and Destruction of Unwholesome Meat, Fish, and Vegetables.

The Meat and Food Inspector has furnished the following particulars of meat, &c., unfit for human food, seized and destroyed during 1914.

The total weight of the meat destroyed amounted to 310 tons, 17 cwt., 3 qrs. Some of this was voluntarily surrendered by the butchers, they having called the Inspector's attention to it.

As in all recent years, a considerable proportion of the meat taken was on premises in connection with the Animals Wharf, Woodside. The total number of animals killed was:—

At Woodside Lairage.							
1 1 0 0	Oxen	Sheep					
Foreign (United States).	100	1707					
Irish	149144	8464					
Total	149144	10171					

AT WALLASEY LANDING STAGE AND No. 4 SHED, WALLASEY LAIRAGE.

	Oxen	Sheep
Canadian and American	(7)	20 January
Irish	305	2835

At the Birkenhead Abattoir, New Chester Road. Oxen, 1787; Sheep, 4208; Lambs, 3782; Calves, 363; Pigs, 4317; the total number of animals killed being 14457.

STATEMENT OF TOTAL SEIZURES.

For the year 1914.

Total number of-

Carcases seized during 1914 .. 412, weighing 141,947 lbs. Immature Calves seized during 1914 1096, weighing 32,880 lbs.

Total. 1508, weighing 174,827 lbs.

Parts of Carcases seized .. weight 25,067 lbs.
Offal seized .. , 398,804 lbs.

Of the above, the number of carcases seized at-

110	Beasts	and Lambs Sheep	Calves	Goats	Immature Calves	Pigs
Woodside—Foreign , Irish Abattoirs Wallasey Stage Wallasey No. 4 Shed	233 7 110 2	15 3 94 18	===	_ _ 1 1	1096	13 10 41 12

63 carcases and offal of animals suffering from foot and mouth disease were destroyed, weighing 21 tons 9 cwts.

Parts of carcases seized at-

Woodside			weight	lbs.
,,	Irisl	h	,,	250623 lbs.
Abattoirs			,,	— lbs.
Wallasey	Stage		,,	— lbs.
Wallasey	No. 4 S	hed	,,	— lbs.
		-		
				050000 11

250623 lbs.

In addition	to the above	the following	artic	les were
seized, viz.:—	Fruit on Street		• •	200 lbs.
7000 1000	Market Hall			489 lbs.
	Market Square	Chickens		9 lbs.
Zumir	Shops	Offals		393 lbs.
		Meat		732 lbs.
		Meat Pies		92 lbs.
		Carcase Goat		10 lbs.
		Rabbits		803 lbs.

Total weight .. 2728 lbs.

Tuberculosis in the Animals.

The following is a Statement of the number of cases dealt with during the year 1st January to 31st December, 1914.

	WOODSIDE & WALLASEY		THE ABATTOIRS.						
		STAGE.		Ča	ttle.	Pigs.			
	No.	Weighing lbs.	No.	lts	. weight.	No.	lbs.	weight.	
FOREIGN CATTLE— No. where whole carcase was taken No. where part only was taken No. where offal only was taken		01000 ±0 1631 ⊒ 6 1	100 111 111		Ξ	=			
IRISH CATTLE— No. where whole carcase was taken No. where part only was taken No. where offal only was taken		90737 25067 22300	4	25	2400 —	10 1 2]	1680 22 200	

CHESHIRE CATTLE and PIGS at the Abattoir-

	No.	Weighing
No. where the whole carcase was taken No. where part only was taken	4	2400 22
No. where offal only was taken	2	200

Actinomycosis at Woodside.

10 cases, heads or tongues or both, 180 lbs.

Proceedings taken under the "Sale of Food and Drugs Acts, 1875 to 1907."

The Chief Inspector (Mr. William Dawson) gives the following summary of proceedings taken under these Acts during 1914.

During the twelve months ending the 31st December, 1914, the following samples were taken and analysed, viz.:—

Milk			tak	samples en formall	y. take	samples en informally.
	• •	••		131		6
Butter		• •		60		9

0,	Sa taken	amples formally.	takei	Samples n info rm ally.
Cheese	• •	14	• •	1
Lard	• •	12	• •	1
Coffee	• •	10	• •	2
Sweets	• •	12	• •	_
Malt Vinegar	• •	10	••	
Beer	• •	10	• •	_
Ground Rice	• •	8	• •	
Cream		4	• •	_
Cream of Tartar		3		_
Margarine	• •	3	• •	-
Tartaric Acid	÷.	3	• •	_
Bread		2	• •	<u>. </u>
Black Currant Jam	• •	2	• •	-
Damson Jam	• •	2	• •	_
Strawberry Jam		2	* *	_
Raspberry Jame			* *	_
Pepper	• •	2	• •	
Cocoa		2		_
Mustard	• •	2	• •	_
Scotch Whisky		2		_
Irish Whisky	0.1707	2		_
Rum		2		_
Gin		2		_
Brandy	.170(1)	2	· •	-
Port Wine	A.	2		_
Paregoric		2	ć.	
Glycerine		2		_
Camphorated Oil		2	• •	_
Castor Oil		2		_
Rhubarb		2		<u>-</u>
Epsom Salts		2		<u></u>
Honey		2		_
Olive Oil		1		
	_		-	10
		323	_	19 -
	1 1			249

Total samples analysed during year .. 342

Out of the above 28 samples of milk, 7 of butter, 1 of Malt Vinegar, 1 of Ground Rice, 1 of Tartaric Acid, and 1 of Rum were reported adulterated, and proceedings were taken in respect of 18 samples of milk, 1 of Butter, 1 of Malt Vinegar and 1 of Rum.

With reference to the remaining samples reported adulterated the Health Committee considered it was inadvisable to institute proceedings, and the particulars of the respective cases and the circumstances which determined the Committee's decision are as follows, viz.:—

Milk samples Nos. 32 and 50.

In these cases the milk was reported to be deficient in fat to the extent of 3 per cent. and 2 per cent. respectively, and as the amounts were small the vendors were given an opportunity of furnishing explanations to the Health Committee and they were subsequently cautioned.

Butter samples Nos. 77 and 91.

Sample No. 77 was reported to contain 17.26 per cent. of water, and upon a sample (No. 91) being taken in course of delivery from the wholesale dealer to the local shopkeeper an amount of water equal to 16.65 per cent. was reported to be present or 0.65 per cent. above the amount allowed by "The Sale of Butter Regulations, 1902."

Inquiry was made into the matter when it was found the butter was of Irish manufacture, and full particulars respecting the samples were subsequently supplied to the Board of Agriculture and Fisheries.

Rice sample No. 99.

This sample was reported to contain 0.4 per cent. of added mineral matter (Talc). As, however, this quantity was below the percentage named by Dr. J. H. Hamill in his Report of the 21st May, 1909 to the Local Government Board, *i.e.*, 0.5 per cent. as being ample to meet the requirements of

traders who represent the practice of facing and polishing rice as necessary, the Health Committee decided not to institute proceedings but to call the attention of the vendor to the matter.

Milk sample No. 116.

In this case the milk was reported to be deficient in fat to the extent of 5 per cent., but as the total solids in the milk were found to be above 11.5 per cent., the amount fixed by the Board of Agriculture and Fisheries, it was not considered advisable to institute proceedings, but the attention of the vendor was directed to the deficiency.

Milk sample Nos. 128 and 137.

Sample No. 128 was reported to contain 3 per cent. of added water, and upon a sample (No. 137) being obtained in course of delivery from the farmer, the milk upon analysis was found to exactly correspond. Under these circumstances the Health Committee decided not to institute proceedings but the attention of the farmer was called to the inferior quality of the milk.

Milk sample No. 139.

This sample was reported to contain 2.6 grains of Boric Acid per pint, and the vendor was afforded an opportunity of furnishing an explanation, which after consideration was accepted.

Butter samples Nos. 174 and 176.

Sample No. 174 was reported to contain 17.66 per cent. of water and upon a sample (No. 176) being taken in course of delivery from the wholesale dealer to the local shopkeeper, an amount of water equal to 20.54 per cent. was reported to be present.

Upon making further enquiries into the matter it was found that as the local shopkeeper purchased the butter in Liverpool and undertook its removal to Birkenhead. The "place of delivery" was apparently in Liverpool, and consequently proceedings could not be instituted against the wholesale dealers. The butter was of Irish manufacture, and a full report was forwarded to the Board of Agriculture and Fisheries for the information of the Board.

Milk sample No. 195.

This sample of milk was reported to be deficient in fat to the extent of 5 per cent., and after due consideration of the circumstances connected therewith, the Health Committee did not think it advisable to institute proceedings.

Butter sample No. 214.

In this case the butter was reported to contain 16.22 per cent. of water, or 0.22 per cent. above the amount allowed by "The Sale of Butter Regulations, 1902."

The amount of adulteration being small the vendor was cautioned.

Milk sample No. 227.

This sample was reported to be deficient in fat to the extent of 2 per cent. and the Health Committee decided that the vendor be cautioned.

Tartaric Acid sample No. 234.

In this case the Tartaric Acid was reported to contain 0.26 per cent. of ash (mineral matter), consisting mainly of Sulphate of Lime.

The Health Committee after full consideration decided to call the attention of the vendor (a grocer) to the matter rather than to institute proceedings.

Milk sample No. 247.

This sample of Milk was reported to be deficient in fat to the extent of 4 per cent., and the deficiency being small the vendor was cautioned.

Butter sample No. 277.

In this case the Butter was reported to contain 16.30 per cent. of water, or 0.30 per cent. above the amount allowed by "The Sale of Butter Regulations, 1902," but as this excess of water was small the Health Committee decided not to institute proceedings but to send full particulars respecting the sample to the Board of Agriculture and Fisheries.

INFORMAL SAMPLES.

All the samples taken informally for Analysis during the year were found pure, with the exception of:—

Milk sample No. 18.

This sample was reported to be deficient in 10 per cent. of its fat. A formal sample was taken which was found to be genuine, it was decided therefore to keep the vendor under observation, and to take further samples.

Milk samples Nos. 27, 46 and 47.

In connection with these samples it may be explained that sample No. 27 was purchased from a small shopkeeper in the Borough, and Samples Nos. 46 and 47 were taken in course of delivery from a farmer supplying the shopkeeper.

When the cases came before the Court the Magistrates dismissed the Summons against the shopkeeper, but fined the farmer 10/- and 19/- costs in the case of sample No. 46, and ordered him to pay the costs, *i.e.*, 16/6 in the case of sample No. 47.

Milk sample No. 57.

In this case the purveyor of milk alleged that he sold the article as "Machined-skimmed milk," but the Magistrates after hearing the evidence convicted and fined him 1/- and 14/6 costs.

The Magistrates also fined the defendant 2/6, including costs, for carrying on the trade of a purveyor of milk without being registered.

Milk samples Nos. 54, 58, 59 and 60.

In connection with these four samples it may be explained that sample No. 54 was purchased from a shopkeeper in the Borough, sample No. 58 was taken in course of delivery by a local milk dealer to the aforesaid shopkeeper and samples Nos. 59 and 60 at the railway station in course of delivery from the farmer to the milk dealer.

When these cases came before the Court the Magistrates fined the shopkceper 1/- and 17/- costs, dismissed the summons against the milk dealer upon warranty, and fined the farmer £1 and 19/- costs in each of the two cases Nos. 59 and 60.

Milk samples Nos. 142 and 150.

In the case of these samples, No. 142 was purchased from a local shopkeeper and No. 150 was taken in course of delivery from a farmer to the said shopkeeper.

The case against the shopkeeper was withdrawn upon the production of a warranty and with the consent of the Magistrates, who convicted and fined the farmer £1 and 19/costs.

Milk samples Nos. 186 and 190.

Sample No. 186 was purchased from a local shopkeeper and sample No. 190 was taken at the railway station from a farmer supplying the said shopkeeper.

On the hearing of these cases the shopkeeper produced a warranty when the summons against him was dismissed, the farmer, however, was convicted and fined £1 and 19/costs.

Milk sample No. 224.

In this case the Magistrates decided after hearing the evidence that "the justice of the case would be met by dismissing it on payment of costs, *i.e.*, 14/6."

50

The particulars respecting the samples in which proceedings were taken are as follows:—

					~ .
Quarter Ending.	Article	No.	Amount of Adulteration.	Fine Inflicted.	Costs Imposed.
1914. March 31	Milk	25	5½% of added water	£ s. d. Dismissed	£ s. d. 0 15 6
		IL.	diam will	upon pay- ment of costs.	
or the Magazine	Milk	26	7½% of added water	Dismissed upon pay- ment of	0 15 6
The All The State	100	V.	7.00	costs.	
to I will have a	Milk	27	5% of added water	Dismissed	-
0700 PO 17 10	Milk	46	5.3% of added water	0 10 0	0 19 0
10	Milk	47	3.2% of added water	Dismissed upon pay- ment of costs.	0 16 6
2001 / 0 at	Milk	54	Deficient in fat to the extent of 8%	0 1 0	0 17 0
199	Milk	57 -	Deficient in fat to the extent of 94%	0 1 0	0 14 6
organization to the contract of the contract o	Milk	58	Deficient in fat to the extent of 6%	Dismissed on watrrany.	-
7 1mm 13 70mm	Milk	59	Deficient in fat to the extent of 16%	1 0 0	0 19 0
	Milk	60	Deficient in fat to the extent of 12%	1 0 0	0 19 0
100	Butter	132	Foreign fats 74.39%	0 10 0	0 17 0
June 30	Milk	142	5.9% of added water	Withdrawn on	
out militar Van	11			warranty.	
	Milk	143	Deficient in fat to the extent of 7%	0 3 0	0 17 0
orland Til	Milk	150	7.3 of added water	1 0 0	0 19 0
September 30	Milk	158	Deficient in fat to the extent of 9%	0 10 0	0 17 0
of two by	Milk	182	Deficient in fat to the extent of 20%	0 10 0	0 17 0
	Milk	186	10% of added water	Dismissed on warranty.	
- 0	Milk	190	7% of added water	1 0 0	0 19 0
	Malt ↓ Vinegar	199	20% of added water	0 5 0	0 17 0
	Milk	224	11% of added water	Dismissed upon payment of costs.	0 14 6
December 31	Rum	285	32% under proof ·	5 0 0	0 17 0

PUBLIC HEALTH (Milk and Cream) REGULATIONS, 1912. Report for the Year ended 31st December, 1914.

1. Milk and Cream not sold as Preserved Cream.

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	115 111
1000	(a) Number of samples examined for the presence of a preservative.	(b) Number in which a preservative was reported to be present,
100	y I observe as	007 3000
Milk	137	Fuldenme So
Cream	in nor <u>d</u>) ylga	Tin Duble A
1 1	A THE SAME AND	CITATION.

- (b) With reference to the sample of Milk reported to contain Boric Acid and sold contrary to the provisions of the Regulations, the vendor was afforded an opportunity of furnishing an explanation in writing. After duly considering the explanation and all the circumstances in connection therewith, the Local Authority decided to caution the vendor.
- 2. Cream sold as Preserved Cream.
 - (a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to preservative were correct:—
 - (1) Correct statements made.. 4
 - (2) Statements incorrect .. 0

Total .. . 4

- (b) Determination made of Milk fat in Cream sold as Preserved Cream:—
 - (1) Above 35 per cent .. 4
 - (2) Below 35 per cent. .. 0

Total — .. 4

(c) Instances where (apart from analysis) the requirements as to labelling or declaration of preserved cream in Article V. (1) and the proviso in Article V (2) of the Regulations have not been observed:—

- (d) Particulars of each case in which the Regulations have not been complied with and action taken:—Nil.
- 3. Thickening Substances.

The Public Analyst has not found any evidence of the addition of any thickening substance to the samples of Cream or Preserved Cream which have been analysed.

4. Other observation, if any.

N11.

COMPOSITION OF MILK SAMPLES.

The following Schedule shews the composition of each sample of Milk analysed during the year ending 31st December, 1914.

Date of Sample.	Identification Number given in Quarterly Report.	Percentage of Fat.	Percentage of solids not Fat.
Jan. 29 Feb. 2	13	3.45	8.75
	14	3.42	8.79
	15	3.38	9.26
	16	3.80	9.15
	17	3.40	9.07
	18	2.69	9.18
	19	3.19	9.40
	20	3.15	9.16
	21	3.80	8.78
	22	2.97	8.76
	23	3.45	8.76
	24	3.55	8.93

Date of Sample.	Identification Number given in Quarterly Report.	Percentage of Fat.	Percentage of solids not Fat.
Feb. 3	$rac{25}{26}$	$3.38 \\ 3.45$	1.04 8.03 7.85
Feb. 13	27 28 29 30 31 32	3.80 3.60 3.65 3.78 3.45 2.91	8.07 8.94 8.85 8.95 8.51 8.58
Feb. 19 Feb. 20 Feb. 23	38 39 40 41 42 43 44 45	3.35 3.16 3.15 3.73 2.97 3.00 3.02 3.00	8.72 8.45 8.89 9.08 8.91 8.88 9.00 9.38
Feb. 24	46 47 48 49 50 51 52 53 54 55 56 57	3.00 3.30 3.45 3.65 3.35 2.94 3.55 3.80 3.50 2.76 3.90 4.00 0.18	9.36 8.05 8.23 8.71 8.86 8.61 8.88 9.36 8.67 9.08 8.78 8.72 9.07
Feb. 28 Mar. 4	58 59 60	2.82 2.50 2.64	8.80 8.89 8.90
April 2	100 101 102 103 104 105	3.30 3.80 4.05 5.00 3.20 3.90	8.88 9.25 9.06 8.91 9.01 9.02

Date Sampl		Identification Number given in Quarterly Report.	Percentage of Fat.	Percentage of solids not Fat.
April April	7	114 115 116 117 118 119 121	3.15 3.15 2.85 4.10 3.50 3.20 3.93	9.31 8.77 8.86 9.22 8.74 8.84 8.86
April	17	121 122 123 124 125 126	3.58 3.48 5.05 4.85 3.80	8.94 8.72 9.12 8.84 8.82
April April April June	20 21 23 12	127 128 129 135 136 137 138	3.50 3.40 3.23 3.85 3.60 3.30 4.00	8.59 8.25 8.87 9.35 8.68 8.26 8.95
June	17	139 140 141 142 143 150	3.42 3.55 4.70 3.64 2.79 3.58	8.56 8.83 8.86 8.00 8.91 7.88
July	3	157 158 159 160 161 162	3.20 2.73 3.04 3.83 3.40 3.40	8.51 8.75 8.74 9.25 9.16 9.16
July July	8 22	169 177 178 179 180 181	3.18 3.30 3.55 6.50 4.40 4.05	8.80 8.80 9.00 8.65 8.99 9.17

Date of Sample.	Identification Number given in Quarterly Report.	Percentage of Fat.	Percentage of solids not Fat.
July 22 July 24	182 183 184 185 186	2.40 3.27 3.50 3.40 3.98	8.45 9.24 9.12 8.59 7.64
July 28 July 30 Aug. 18	192	3.90 3.60 3.75 3.84 3.46 3.90 4.30	8.53 8.73 8.80 7.90 8.66 8.46 8.96
Aug. 27 Sept. 16	194 195 196 197 220 221	3.01 2.85 3.00 3.90 3.39 4.30	8.41 8.95 8.75 8.61 8.83 9.08
Sept. 21 Sept. 22	$\begin{array}{c c} 224 \\ 225 \\ 226 \end{array}$	5.75 4.95 3.08 3.37 4.23 2.94 2.98	8.51 8.92 7.56 9.10 8.59 8.74 9.12
Sept. 2 8	229 230 231 232	7.65 3.00 3.00 3.32 4.37 4.13	8.80 8.83 9.24 9.25 8.98 9.08
Sept. 28	241 242 243 244 245 246	3.47 3.12 3.70 4.37 3.76 4.00	9.08 9.23 8.44 8.98 8.99 9.00

Date Sampl	ate of Identification Number given in Quarterl Report.		nber given Quarterly	Percentage of solids not Fat.		
Sept. Sept. Oct.	29 30 21 27	0 72.7 00.05 10.0 10.0 10.0 10.0 10.0 10.0 10.	247 251 252 267 270 271 272	180 180 584 984 984	2.88 3.75 4.57 5.78 3.86 3.91 4.60	9.04 8.94 9.16 8.85 8.65 8.56 8.98
Nov. Dec.	30 30		273 274 275 276 310 341 342		3.42 3.92 5.98 3.67 3.96 3.68 3.50	9.02 8.60 9.00 8.78 8.75 8.61 8.92

AVERAGE PERCENTAGE: -Fat, 3.62; Solids not Fat, 8.81.

Dairies, Cowsheds and Milkshops' Regulations.

Proceedings were instituted in one case for an infringement under Section 6 of these Regulations and the defendant was convicted and fined 2/6, including costs.

Contagious Diseases (Animals) Act, 1886.

The Milkhouses.—The regulation of dairies, cowsheds, and milk-shops, and the supervision of mik-sellers, has had systematic attention for a number of years. Special care is taken that the ventilation, lighting, cleansing, draining, and water supply of premises used for milk-trade are thoroughly efficient. The register of milk-sellers is revised week by week. The total number of milk-shops is 200, in addition there are 36 purveyors of milk, 11 cowsheds, and 42 farmers resident outside the Borough, registered to purvey milk inside the Borough.

Twice every year notice is sent to all the milk-sellers requiring that the walls and ceilings of every room in the occupation of Registered Milk-sellers, used for storage or sale of milk, shall be lime-washed, that is to say, in March and September; but if the walls are painted, then they must be washed and thoroughly cleansed twice every year, in March and September.

Meteorological Results.

The noteworthy features of the meteorology of the year are given in the following tabular statement, which has kindly been prepared by W. E. Plummer, Esq., M.A., F.R.A.S., Director of the Observatory, Bidston Hill, Birkenhead, who also furnishes particulars weekly of the daily observations taken under his directions, from which Table IV. in the appendix is compiled.

LIVERPOOL OBSERVATORY, BIDSTON, BIRKENHEAD.

1914.	Mean Tempera- ture	Mean Barometer	Rainfall. 1 ft. above ground
	o°F	Inches	Inches
January	40.3	30.128	1.020
February	44.5	29.600	1.295
March	43.6	29.566	2.617
April		30.051	0.546
May		30.096	1.482
June	57.8	30.071	2.144
July		29.859	4.156
August	61.5	29.997	1.325
September	56.9	30.058	2.622
October	51.5	30.035	1.711-
November		29.835	2.761
December	40.6	29.499	4.338

Mean Barometer for the whole year 1914= 29.900 inches.

Mean Barometer for the past 47 years = 29.922 inches.

Number of wet days in the year 1914= 190 days.

Total amount of rainfall at Bidston 1914 = 26.017 inches.

Average rainfall for last 47 years=28.464 inches

Mean Temperature for the year 1914=50 c.3

Average mean temperature for last 47 years=49°1.

Barometer.—The mean barometer of 1914 (29.900 inches) was lower than last year and 0.022 lower than the average mean for the last 47 years. Detailed particulars respecting

the barometric pressure, temperature, rainfall, wind, humidity of the air and the proportion of cloud to clear sky, &c., will be found in Table IV.

Rainfall.—The rainfall of 1914, 26.017 inches, was higher than last year, but lower than the average of the previous forty-seven years.

Year.	Total Amount Rainfall in inches at Bidston	No. of wet days in the year
1901		190
1902		200
1903	34.418	224
1904		196
1905		192
1906	28.076	196
1907	26.568	209
1908	28.902	190
1909	28.447	202
1910		227
1911		170
1912		209
1913		205
1914		190
.51	1 20011	100

The figures for the years 1867 to 1899 are given in my Report for 1904.

Water Supply.—The water supply of the Borough is from deep wells in the old red sand stone, and is of excellent quality. Annual Reports are regularly issued by the Water Engineer.

PREVALENCE OF ZYMOTIC SICKNESS DURING 1914.

Notification of Cases of Dangerous Infectious Diseases.—
The Infectious Diseases Notification Act, 1889, requires householders and medical men in attendance to notify cases of dangerous infectious diseases to the Sanitary Authority, and gives facilities for supplementing the statement of the mortality from zymotic diseases, month by month, as they were reported. The diseases which require to be notified to the Authority as "dangerous infectious diseases" are:—

Small-pox.
Scarlatina.
Diphtheria.
Membranous Croup.
Erysipelas.
Cerebro Spinal
Meningitis.

Typus.
Typhoid.
Continued.
Relapsing.
Puerperal Septicæmia.
Acute Poliomyelitiis.
Cholera.

The cases notified appear in the following return, showing that 621 cases were notified during the year, being 150 less than the number notified last year.

The notification of Measles was discontinued after 7th August, 1907.

The following Table gives the number of Nofifications of Dangerous Infectious Diseases in each month of the year.

							-			_			
1914.	Smallpox	Scarlatina	Diphtheria	Typhus	Typhoid	Puerperal Fever	Fever	Mem. Croup	Erysipelas	Poliomyelitis	Cerebro Spinal Men.	Cholera	TOTAL
January February March April May June July August September October November December		63 54 35 41 32 20 20 20 25 22 20 19	9 11 10 10 11 12 8 7 7 15 8 8		1 1 1 2 3 1 1 5 4 3 —	- - 1 - 1 - - - - - 6	ПППППП	1 -2 2 2 2 - - - 1 1 1	10 10 13 10 3 4 2 4 10 4 14 7		1		85 76 62 63 51 40 31 32 50 48 48 48 35
		311	110		- 44	Ů		10	01	*	1		021

And the next Table the number of cases of the different diseases notified in each year during the last eleven years.

The statement is as follows:-

Year.	Smallpox	Measles	Scarlatina	Diphtheria	Typhus Fever	Typhoid Fever	Fever	Mem. Croup	Erysipelas	Poliomyel- itis	Cerebro Spinal Meningitis	Cholera	TOTAL
1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	40 2 2 1 5 1 7 1 7	2212 979 920 2287 — — — —	627 874 869 288 454 644 291 415 790 531 371	97 138 178 212 140 132 130 170 131 139 116	1 - 1 - 1	103 63 118 70 62 46 30 36 23 19 22	21 8 11 7 10 13 5 9 19 11 6	17 15 21 15 11 17 10 8 10 4 10	70 64 95 73 94 61 89 73 82 64 91				3188 2143 2214 2953 777 915 562 712 1055 771 621

The figures for the years 1882-1905 will be found at page 25 in my report for 1905.

Small-pox.

No cases of Small-pox were notified during the year.

I am indebted to the Borough Surveyor for the following information relating to the

Number of New Houses erected in the Borough.

April 1st, 1911, to December 31st, 1913.. 814

January 1st to December 31st, 1914 .. 246

The number of houses demolished since taking of Census in 1911 was 132, namely, 3 in 1911, 44 in 1912, 67 in 1913, and 18 in 1914, a net gain of 928.

The following Table gives particulars respecting Erection of New Houses and Demolition of Houses in the Borough during each year from 1892 to 1914:—

		New Houses	Houses	
Year		Erected	Demolished	Net Increase
1892		99		
1893	Average	108		
1894	per year	139		
1895	130	175		
1000				
		521	81	440
1006		255	8	247
1896			6	343
1897		349		
1898	Average	438	125	313
1899	per year	434	28	406
1900	385.9	408	81	327
1901		420	66	354
		2304	314	1990
			[Ca	rried forward.

1902 1903 1904 1905 1906 1907 1908	Average per year 677.3	646 897 643 848 472 685 550 4741	10 -10 -8 -152 -35 -14 -52 	636 887 635 696 437 671 498
1909 1910 1911 1912 1913 1914	Average per year 273	293 255 232 273 339 246 1638	77 7 9 44 67 18 	216 248 223 229 272 228 ———————————————————————————————

I am again able to repeat that the Health returns and the Birth and Death rates for the Borough are in every way satisfactory, and compare very favourably with those of the surrounding towns and the country generally.

The following Table gives the estimated Midsummer Populations of the Wards 1911 to 1920.

WARDS.	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
				41 1		- 2	-	000		
Argyle	15154	15405	15661	15921	16186	16451	16724	17007	17291	17577
Grange	26387	26825	27271	27724	28185	28654	29130	29614	30106	30606
Cleveland	23812	24207	24609	25033	25449	25872	26302	26738	27183	27634
Claughton	8047	8179	8315	8445	8586	8728	8873	9020	9170	9329
Oxton	4801	4887	4968	5050	5134	5221	5308	5396	5484	5575
Clifton	24012	24411	24817	25229	25649	26076	26509.	26948.	27397	27852
Egerton	17264	17550	17841	18137	18439	18746	19058	19374	19696	20022
Mersey	8288	8425	8566	8708	8852	9000	9149	9301	9454	9611
Bebington	3573	3632	3692	3749	3811	3874	3940	4005	4072	4139
Whole Borough	131338	133521	135740	137996	140291	142622	144993	147403	149853	152345

VITAL AND MORTAL STATISTICS FOR THE YEAR.

Area.—The Borough has an area of 3,850 acres, or a little more than six square miles.

Population.—The Census was taken in England and Wales on April 2nd, 1911, and showed the number of persons in Birkenhead to be 130,794, being 19,879 more than the number shown in the Census taken on April 1st, 1901.

For the purposes of this Annual Report an estimate is required of the number of persons living at Midsummer, 1914, and I have estimated that on the 30th June of that year the population was 137,996, and on this estimate have based the following statistics.

At the time of the 1901 Census the number of inhabited houses was 19,744, giving an average number of persons per house of 5.6; the number of houses in the Borough at the time of the 1911 Census was 24,343, giving an average number of persons per house of 5.3.

I am indebted to the Chief Constable for the following Return of uninhabited property in the Borough of Birkenhead for the half year ending 31st December, 1914:—

611 0202	Ha	lf-year e	nded 31s	t Dec., 1	914.	Half-year ended 30th June, 1914.						
District	Private Houses	Shops	tages		Total.	Private Houses. Shops		Cot- tages.				
Birkenhead	79	78	63	-0_1	220	89	96	73	_	258		
Oxton	87	22	1	70	180	91	16	9	76	192		
Tranmere and Bebington	72	41	4		117	80	29	10	_	119		
Totals	238	141	68	70	517	260	141	9:2	76	569		

Total uninhabited and unoccupied property, 31st December, 1913, was 603, so there was a decrease of 86 at the end of 1914 as compared with the previous year.

Births and Deaths in Birkenhead.—During the year 1914 the returns of the local registrars recorded 3,792 births and 2,153 deaths in the Borough of Birkenhead. The natural increase in the poulation in 1914 was therefore 1,639. Of the births 1,879 were males and 1,913 were females; of the deaths 1,153 were males and 1,000 were females.

Further particulars as to the births and deaths in the Borough registered in each quarter of the year, and in each township are given in the subjoined table. Those occurring in Union Workhouse are entered separately. Twenty births have been subsequently transferred by the Registrar General to other districts. These have not been deducted in the following table, but 2 births sent to us by the Registrar General have been included. This table is made up week by week.

	1st	Qr.	2nd Qr. 3rd Qr.			Qr.	4th	Qr.	19	1914		
BIRTHS.	м.	P.	M.	F.	м.	F.	м.	F.	M.	F.	Total.	
Birkenhead Claughton Tranmere Oxton Bebington Union Hospital	261 16 142 1 6 7	302 15 190 7 5 5	284 29 169 9 3	282 17 189 7 4 2	287 22 167 6 8 4	274 25 162 7 4 3	250 21 162 2 10 2	251 22 127 5 4 4	1092 88 640 18 27 14	1109 79 668 26 17 14	2201 167 1308 44 44 28	
Birkenhead Borough	433	524	495	501	494	475	457	413	1879	1913	3792	

	1st	Qr.	2nd	Qr.	3rd	Qr.	4th	Qr.	19		
DEATHS.	M.	F.	м.	F.	M.	F.	м.	F.	M.	F.	Total.
Birkenhead Claughton Tranmere Oxton Bebington Union Hospital	143 15 76 5 4 47	111 16 68 4 4 35	125 5 64 8 	94 10 62 7 5 30	145 12 66 1 4 35	124 11 52 8 2 25	194 8 91 5 6 51	179 15 84 9 6 39	607 40 297 19 14 176	508 52 266 28 17 129	1115 92 563 47 31 305
Birkenhead Borough	290	238	245	203	263	222	355	332	1153	1000	2153

The next table shows the revised estimated poulation of Birkenhead, the density of population and the number of births, deaths and zymotic deaths, and also the birth and death rates deducible from these figures for the years 1900 to 1914. These figures for the years 1878 to 1899 were given in my reports for the years 1898 and 1899. This table has been revised since the figures of the 1911 Census have been published.

	Revised Estimated	Persons	BI	RTHS.	DEA	THS.	Number of Deaths per a 209 1 353 3 270 2 260 2 465 3 239 2 371 3	DEATHS.
Year	Population at Midsummer	per acre.	Number of Births.	Birth rate per 1000 per annum	Number of Deaths	Death rate per 1000 per annum		Death rate per 1000 per annum
-	- 101 an	101 -		T 11	500 - 7	0.1		
1900	110042	28.5	3428	31.1	1965	17.8	209	1.8
1901	111377	28.9	3230	29.0	2061	18.5	353	3.1
1902	113231	29.4	3646	32.1	1989	17.5	270	2.3
1903	115117	29.9	3516	30.5	1937	16.8		2.2
1904	117034	30.3	3805	32.5	-2282	19.4		3.9
1905	118982	30.9	3707	31.1	1833	15.4		2.0
1906	120964	31.4	3733	30.8	2078	17.1		3.0
1907	122978	31.9	3727	30.3	1329	14.8		2.0
1908	125026	32.4	3775	30.1	1929	15.4	267	2.1
1909	127108	33.0	3737	29.4	1930	15.1	180	1.4
1910	129227	33.5	3730	28.8	1993	15.4	251	1.9
1911	131377	34.1	3732	28.4	2107	16.0	334	2.3
1912	133521	34.6	3774	28.2	1964	14.7	197	1.4
1913	135740	35.2	3907	28.7	2032	14.9	205	1.5
1914	137996	35.8	3772	27.3	2153	15.6	244	1.7

Infantile Mortality during 11 years, 1904 to 1914.

Year.	No. of Births	Total Deaths of Infants under 1 year.	Deaths from Diarrhœa under 1 year.	Total Deaths of Infants per 100 Births.	Deaths of Infants from Diarrhea per 1000 Births.
1904	3805	688	136	1°0 129	35.7 23.7
1905 1906	3707 3733	481	88 152	151	40.7
1907	3727	410	30	110	8.0 17.7
1908 1909	3775 3737	516 458	67 33	122	8.8
1910	3730	507	56	135	15.0
*1911	3732	509	134	136	35.9 5.2
*1912 *1913	3774 3907	371 458	20 68	117	17.4
*1914	3772	462	36	122	9.5

^{*} This is the revised rate after the Registrar General has transferred births from other towns. It cannot be compared with other towns unless we had all their revised rates,

Causes of Infantile Mortality during the past 10 years (1905 to 1914).

(DEATHS UNDER ONE YEAR).

	7	100	11	10010	YEA	RS.				
Cause of Death.	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914
Chicken-pox Measles Scarlet Fever Diphtheria & Membranous Cr'p Whooping Cough Diarrhœa Entertits Gastritis Premature Birth Congenital Defects Teething Inanition and Privation Debility Tabes Mesenterica Other Tubercular Diseases Erysipelas Syphilis Rickets Meningitis (not tuberculous) Convulsions Bronchitis Preumonia Heart Disease Suffocation, overlaying, etc. Other Causes	1 5 1 3 88 19 13 711 10 3 9 63 11 12 1	1 -4 33 1524 7 68 13 5 5 83 9 9 1 4 1 11 23 16 45 2 44		1 11 27 67 15 12 81 17 2 11 12 3 11 12 3 11 15 47 51 7 16 34	2 7 1 6 33 24 9 58 15 4 21 12 2 2 9 13 36 55 9	7 	5 1 1 13 134 24 7 53 24 7 10 65 5 14 1 7 18 41 40 2 7 29	7 2 20 20 20 19 5 60 17 4 17 7 70 1 8 2 2 2 6 9 24 31 9 19 19 19 19 19 19 19 19 19 19 19 19	-2 -4 155 684 64 12 50 15 6 11 81 -2 10 -6 14 27 33 18 23	4 12 1 16 36 36 58 2 67 17 4 10 80 2 8 3 7 1 5 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total Deaths per annum	481	565	410	516	458	507	509	371	458	462
No. of Births per annum Death Rate per 1000 per annum	3707	3733	3727	3775	3737	3730	3732	3774	3907	3772
per 1000 Births	129	151	110	136	122	135	136	98	117	122

Average Death Rate per 1000 per annum, per 1000 Births for the 10 years 1905 to 1914, equals 125.

Birth rates and Death rates in forty-ix great towns in England.—In order that the birth rates and death rates of the Borough of Birkenhead in 1914 may be compared with the corresponding rates of the most populous cities and boroughs in England, the following table gives the estimated population of the forty-six large towns at Midsummer, 1914. For comparative purposes these figures are interesting, as they are all calculated on the same basis. (See table on page 66.)

*Table shewing the unrevised Birth Rates and Death Rates, &c., in 46 great Towns in England and Wales, in 1914.

100000000000000000000000000000000000000				
9 10 7 10 1				Infantile
	Population	Death Rate	Birth Rate	Death Rate
Name of Town.	1914	per 1000	per 1000	per 1000
10 120 THE PERSON	Midsummer	(1001) (1001)	•	Births
17 7 7		7		
BIRKENHEAD	137996	15.6	27.3	122
Bristol	363312	14.1	20.6	85
Burnley	$110040 \\ 119003$	14.5	$\frac{21.7}{2}$	136
Coventry		11.1	22.5	75
Croydon	181956	11.8	21.3	$\begin{array}{c} 85 \\ 142 \end{array}$
Huddersfleld	112265	16.3	16.4	
Hull	291118	15.2	25.1	114
Leeds	$459260 \\ 767992$	14.6	$\frac{22.4}{29.5}$	$\frac{111}{153}$
Liverpool Manchester	78538	$\frac{20.9}{16.0}$	$\begin{array}{c} 29.5 \\ 22.7 \end{array}$	130
Manchester Newcastle-on-Tyne	$\begin{array}{c} 738538 \\ 273415 \end{array}$	21.1	24.9	170
Norwich	124107	$\frac{21.1}{12.5}$	19.8	78
Oldham	151044	17.4	$\frac{19.8}{21.1}$	172
Plymouth	113559	17.9	21.1 22.3	133
Wallasev	87175	13.9	$\frac{22.3}{20.8}$	129
Wolverhampton	95725	14.0	25.3	93
Wolverhampton Birmingham	868430	15.6	$\frac{25.0}{25.0}$	144
Blackburn	134387	15.0	19.4	157
	185247	13.8	20.7	116
Bolton Bootle	73230	16.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	126
Bradford	291482	15.1	18.2	118
York	83802		20.8	124
Sunderland	152927	15.2	29.6	120
Stoke-on-Trent	241430	15.7	30.4	117
Wigan	91491	20.3	27.5	153
Wigan	296570	14.7	28.8	147
Warrington	74923	15.3	28.0	88
Southampton	123948	14.5	24.8	89
St. Helens	100775	17.2	30.3	155
Sheffield	476971	15.3	25.6	118
Derby	126389	12.3	23.2	86 90
Brighton	$\begin{array}{c} 133936 \\ 119362 \end{array}$	14.0	$\frac{16.6}{29.6}$	138
		10.0	$\frac{29.6}{21.4}$	105
Leicester	$232664 \\ 266918$	$\begin{array}{c} 13.3 \\ 15.7 \end{array}$	$\frac{21.4}{22.2}$	164
Nottingham		$\frac{13.7}{12.3}$	$\frac{22.2}{20.5}$	87
Portsmouth	234975	17.2	24.1	146
Preston	118514	16.0	$\frac{24.1}{21.4}$	128
	94320	13.7	17.4	125
Stockport	126040	14.1	19.7	120
Cardiff	188495	14.0	23.5	109
Middleborough		17.2	$\frac{26.0}{26.2}$	133
South Shields	111357	15.0	30.1	110
Rhondda	166365	15.6	30.9	156
Swansea	121665	13.3	25.7	142
London	4516612	15.3	23.4	123
97 Great Towns	18120059	14.9	23.3	117

^{*} Compiled from the British Medical Journal's return.

The proportion of Deaths of Infants under One year to the Births registered.—The proportion in Birkenhead Borough in 1914 was equal to 122 per 1,000, and compares very favourably with that of other towns. The average infantile mortality for the 97 great towns of England and Wales was 117 per 1,000 births. The rate varied greatly in the different towns in the N.W. District—from 172 in Oldham, 156 in Blackburn, 155 in St. Helens, 153 in Wigan and Liverpool, 129 in Wallasey, 128 in Preston, 126 in Bootle and 122 in Birkenhead, &c.

Tabular Statements.—In the appendix to this Report are tabular statements of the year's mortality within the Borough, classified according to the diseases, ages and localities, a weekly register of deaths and of meteorological results, together with a return of the deaths in the Birkenhead Union Hospital and Workhouse, &c.

Table I. shows the deaths registered in the whole Borough during 1914, arranged with reference to the age at which death occurred in each case. They are disposed in four sub-tables—the deaths in the townships of Birkenhead and Claughton in the first, deaths in Tranmere (exclusive of the Union premises) and Oxton in the second, the deaths in the incorporated portion of Higher Bebington in the third, and the deaths in the Union Hospital and Workhouse in the fourth. The deaths of infants are entered up in three columns—those under one year, those of one year and under two years, and those turned two years and under five. Then follow the deaths of children and young persons, those turned five years and under twenty; and of adults those turned twenty and under forty, and those turned forty and under sixty. In the last two columns are the deaths of old people, those turned sixty and under eighty, and those of eighty and upwards. Reference to this table will show that, of the gross local mortality for 1914, the deaths of infants under one year of age accounted for 462, those over one year but under five years of age 330, children and young persons 131,

adults 649, old people sixty years of age and upwards 581.

The relative proportion of deaths in 1914 among the infants, children and young persons, adults and old people, to the whole number of deaths, in certain sub-divisions of the Borough, in the premises controlled by the Guardians of the Poor, and in the entire incorporated area, is readily shown in tabular form, thus:--

AT DAY IN	WAR	(0)	TO.	071	. 11	un.	-13	11/21	Π.	22. 2						
Percentage of Deaths at certain ages to	nder	130	007	9 -	1 8	30	-71	A	ge bet	ween						years and up-
Total Deaths	2-	1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-25	25-35	35-45	45- 55	55-65	65-75	75-85	wards.
Birkenhead and Claughton	15.23	6.17	2.13	1.06	0.97	1.48	1.16	1.20	1.20	3.25	2.97	5.06	5.62	4.92	3.20	0.37
T'mere & Oxton	5.24	2.09	1.25	0.46	0.46	0.65	0.51	0.23	0.46	1.43	2.46	2.36	3.39	4.13	2.36	0.78
Bebington Union Hospital.	0.13	117	Y	700	TU		41.		1 10	0.09	0.09	0.23	0.18	0.41	0.23	0.04
and W'house	0.83	0.46	0.18	1	0.04	0.13	0.23	0.46	0.21	1.06	1.52	2.41	1.90	2.55	1.43	0.37
Birkenhead Borough	21.45	8.73	3.57	1.52	1.48	2.27	1.90	1.90	2.18	5.85	7.05	10.07	11.10	12.02	7.24	1·57

In this respect the local mortality compares favourably with the mortality in most great cities and boroughs. The percentages taken out for Bebington have little significance, the number of deaths being so small.

The Registrar General states that the factor for correcting the general death rate for Birkenhead for the intercensal period, 1912—1921, is 1.0324.

Table II. is the weekly register of deaths in the Rorough of Birkenhead for 1914. The deaths are entered into three sub-tables, representing Birkenhead; Claughton, Tranmere, Oxton and Bebington, and the Union Hospital and Workhouse. Table III. is a summary of the weekly register of deaths. Table IV. is a Weekly Condensed Register of Meteorological Results. Table V. is a street register of deaths.

The Classification of Death Causes.—The causes of death, as they appear in Tables I. and II. in the appendix, are systematically classified according to the principles laid down by the late Dr. W. Farr, the nosology being that adopted by the Registrar General until within the last few years, which

experience has shown to be well suited for statistical purposes. The death causes are arranged under classes and orders, the latter corresponding to the families of Natural History. Genera, or what in diseases would be varieties, are not distinguished. All death causes are thus conveniently classified under 140 heads, some of which, however, include diseases very distinct from one another.

At the beginning of Table I. are the totals of deaths from all causes, and on the next line the totals of deaths from specified causes. The deaths which it is necessary to refer to unspecified causes are not only those ascribed in legal phraseology, to "visitation of God" or "natural causes," but those which, with almost equal vagueness, are classified as due to "tumour," "coma," etc. The deaths from specified causes are then divided into five classes. Class I. (the zymotic) embraces all diseases, either epidemic, endemic or contagious, which are induced by some specific body, or by want of, or by the bad quality of food. The diseases coming under Class II. (constitutional or cachetic) appear to be due to a bad habit of body, and possibly may sometimes be hereditary. Class III. takes in diseases the effects of which are manifest in disturbing or obliterating the function of particular organs or systems. Class IV. includes the contions tending to produce death which are the incidental results of the formative, reproductive and nutritive processes. Class V. groups together all deaths which are the evident and direct result of physical or chemical forces.

Deaths from Zymotic Diseases.—The deaths from zymotic disease include 95 by what have been termed the chief zymotics (certain diseases belonging to the miasmatic order), viz., measles 67, scarlatina 6, diphtheria 11, membranous croup 5, fevers 4, and puerperal septicæmia 2. The remaining 149 were entered to what have been called minor zymotics (diseases less prevalent, less fatal, or less obviously zymotic in character), viz., whooping cough 49, erysipelas 5, influenza 21, diarrhæa 48, syphilis 11, and other zymotic diseases 15.

Relative Fatality of Chief Zymotic Diseases.

The following table shows at a glance the relative fatality of the chief zymotic diseases for the year on the corrected estimate of poulation.

	Deaths from Zymotic Diseases.					ses.	Death rate per 1000 living.							
Year.	Smallpox	Measles	Scarlatina	Diphtheria	Whooping	Typhoid Fever	Diarrhæa	Smallpox	Measles	Scarlatina	Diphtheria	Whooping Cough	Typhoid Fever	Diarrhea
1905 1906 1907 1908 1909 1910 1911 1912 1913 1914		32 8 129 44 41 34 23 52 8	28 31 10 6 17 5 5 10 4 6	22 24 21 8 14 19 21 17 20 16	1 58 16 60 15 64 31 49 41 49	6 17 11 9 5 10 8 5 1	115 200 42 94 42 78 194 33 100 48	- 0·007 - - - -	0·27 0·06 1·04 0·35 0·32 0·26 0·17 0·38 0·05 0·49	0·23 0·25 0·08 0·04 0·13 0·03 0·03 0·07 0·02 0·04	0·18 0·19 0·17 0·06 0·11 0·14 0·15 0·12 0·14 0·11	0.008 0.47 0.13 0.47 0.11 0.49 0.23 0.36 0.30 0.35	0.05 0.14 0.08 0.07 0.03 0.07 0.06 0.03 0.007 0.02	0.96 1.65 0.34 0.75 0.33 0.60 1.47 0.24 0.73 0.34

Vaccination.—Mr. S. R. Carter, Clerk to the Board of Guardians of the Birkenhead Poor Law Union, has kindly supplied me with the following latest completed information relative to vaccinnation in the District, viz.:—

From 1st January, 1913, to 31st December, 1913.

No. of Births		3948
		2926
Induscoperate to the second		6
		None
of the continue of the change of the contract of the		
Number in respect of whom Statutory Declarations	ot .	
conscientious objection have been received .		437
Died Unvaccinated		338
Postponed by Medical Certificate		57
Removed to Districts the Vaccination Officers of which	ch	
were duly notified		20
Removed to places unknown or which cannot be reached	ed	89
		75
In Abeyance, up to 8th February, 1914	• •	75
	1.	- 41

Taking 338 who died, and 109 who removed to other districts, 57 postponed by medical certificates, and 6 which

were insusceptible, and 75 in abeyance, from 3948, it leaves 3363 children who could possibly be vaccinated. Of these 2926 were vaccinated, equal to 87 per cent.

It is to be regretted that 437 children were unvaccinated owing to objections on the part of the parents, an increase of 6 on the previous year.

TUBERCULOSIS SUB-COMMITTEE.

ALDERMAN E. G. MASON, Chairman.
ALDERMAN M. BYRNE.
ALDERMAN F. NAYLOR.
ALDERMAN THOMAS SHAW.
COUNCILLOR R. FRAME.

TUBERCULOSIS DISPENSARY CONSULTATIVE COMMITTEE

Members of the Tuberculosis Sub-Committee and the following Representatives of the Birkenhead Insurance Committee, viz.:

MR. G. P. SNAPE, (Chairman of the Insurance Committee).

Mr. T. CRAGG-JAMES. Mr. E. MACDONALD.

CHESHIRE JOINT SANATORIUM COMMITTEE.

The following are the Representatives of the Birkenhead Town Council upon the Committee, appointed pursuant to Article V. of the "Cheshire Joint Sanatorium Committee Order, 1914," viz.:

ALDERMAN MASON. ALDERMAN BYRNE. ALDERMAN SHAW. COUNCILLOR FRAME.

REPORT ON THE WORK OF THE TUBERCULOSIS DISPENSARY, 6, DUNCAN STREET, DURING THE YEAR 1914.

I have to thank Dr. Cyril Banks, the Tuberculosis Officer, for the following report on the work of the Tuberculosis Dispensary during the year 1914, which may with advantage be prefaced by a brief statement of the object of such work.

A Tuberculosis Dispensary is meant to be the headquarters for the campaign against Consumption and other forms of Tuberculosis in its particular district. Endeavours are made through the medium of the Dispensary to co-ordinate the work of all interested in the campaign, so as to prevent over-The actual medical treatment of Tuberculosis is not a prominent part of the work, but the dispensary acts as a "clearing house" where cases are received and classified according to the stage of their disease, and then, as far as possible, drafted to appropriate institutions for cure, or put in touch with agencies likely to render whatever assistance is most needed. Consumption being a preventable disease it is natural that the dispensary should become a centre for . the education of the public in general, and consumptives in particular, as to the methods by which the spread of the disease may be checked; lectures are delivered, pamphlets published and personal instruction given by the members of the dispensary staff. Not all the patients who attend are tuberculous; many of them are suffering from suspicious illness and are referred to the dispensary by their doctors for diagnosis, or for continual observation. A well equipped laboratory for bacteriological investigations forms part of the organisation.

NEW FEATURES.

In the last annual report it was pointed out that the dispensary would only attain its full activities and usefulness when the remaining portions of the Corporation's arrangements for the treatment of Tuberculosis were complete, that is to say, when the Hospital at Thingwall and the Joint Sanatorium in the county were available. That statement remains true, but it is satisfactory to note that further developments of the work have taken place. Attention is specially drawn to the acquisition of beds at the Leasowe Sanatorium for Surgical Tuberculosis in Children; also to the close co-operation which now exists between the Corkhill Charity and the Dispensary. Both these matters receive notice in special paragraphs on another page. Among other advances during the year must be mentioned the facilities now available for supplying not only spitting-flasks, but also Japanese paper handkerchiefs; and the Corporation's arrangements for erecting open-air sleeping shelters for consumptives are referred to elsewhere.

THE WORK OF THE YEAR 1914.

Changes in the Staff have occurred during the year. Miss Roberts, the Dispensary nurse, relinquished her appointment on her marriage in October, and her place was taken by Miss S. Jones. Mr. Knowles, the clerk, joined the Army soon after war commenced.

I am happy to say that cordial relations have continued to exist with the medical practitioners of the Borough, and also with the various agencies dealing with the sick poor.

The extent of the work carried out is indicated in the tables given below.

Emilianias de la Nomerodias de Tubenous	00x0 (c11	formal
STATISTICS AS TO NOTIFICATION OF TUBERCUL	osis (aii	ioims)
during 1914.	600	
Total Notifications	689	
Duplicates	272	
Primary Notifications	417	
The Notifications were as follows:—		
Pulmonary	11 33 34	309
Peritoneum	19 5 2	
Bladder	$\frac{2}{2}$	
General	2	100
Total Non-Pulmonary	• •	108
		417
Pulmonary Tuberculosis.		
Cases in the Borough, December 3	let 1019	206
S AND MAINTENA TOTAL STATE	151, 1913	
Cases notified during 1914	• •	309
Gross total		705
*Died during 1914	138	
Removed from Borough	31	
37	13	
Not traceable Subsequently found not suffering	27	
Total Deductions	••	209
Corrected total of known cases of Pul- monary Tuberculosis living in the		
Borough, December 31st 1914		496

[•] This number differs from that in the Registrar-General's return on which deathrates are calculated, the latter containing a few transferable deaths from other districts.

INVESTIGATIONS INTO SOURCES OF INFECTION.

Of the 417 cases notified it was possible to secure information on this point in 360 cases.

Cases in which the diagnosis was subsequently found to be incorrect have been omitted.

	Pulmonary	Brain	Glands	Bones & Joints	Peritoneum	Skin Primary Larynx Bladder	General
Known to have associated	1					Tribute Inc.	-
with a person suffering from the disease at home	95	2	4	7	4	1 1 1	1
Known to have associated with a person suffering from the disease at work	5	0	0	0	0	0 0 0	0
Family history of Tuber- culosis, but patient not actually in contact	35	2	7	7	2	1 0 0	0
No family history of Tube- culosis, and no contact with any known case	126	8	18 -	19	11	1 1 0	1

Incidence of Tuberculosis according to the Number of Rooms occupied by the Families.

The investigations detailed below refer to 370 households, at the time of the nurse's first visit

No. in					No. Oce	upying.		U(re-nb-r)		
Family	1 room	rooms	rooms	rooms	5 rooms	6 rooms	7 rooms	8 rooms	rooms	10 room
1 2 3 4 5 6 7 8 9 10 11 12 13	4 3 5 1 1 1 	5 6 6 6 5 1 	2 10 6 7 4 3 1 2	4 10 19 19 16 11 10 6 3	7 11 24* 34 23 25 9 4 3	 2 1 3 5 6 4 3 1	1 2 3 3 1 	 1 2 1 3 2 1 	3 1	:: :: :: :: ::

OCCUPATIONS

Followed by 220 cases at the time of their notification.

	Pulmonary.	Non-Pulmonary.	Died.
Baker	. 2		
Barman	. 3		
Blacksmith	. 1	• •	1
Boilermaker	. 3	.:	1
Bookbinder		1	
Bottlewasher	. 2		
Brassfinisher	. 1		1
Brewer's drayman	. 1		1
,, traveller	. 1		
Canvasser	. 1		
Cardboard boxmaker	1117	1	
Carriage cleaner	. 2		
Carter	. 3	1	
Charwoman	. 3		1
Checker (docks)	1		• •
,, (railway)	. () 1 -		
Chemist	. 1	• •	
Clerk	. 7	1	
Coal hawker	1	2	1
Coalheaver	. 2		1
Confectioner	2	• •	
Cotton reeler	. 2		• •
Crane driver	. 1	• •	• •
Domestic servant	. 15		1
Dressmaker	2	1	
Engine fitter	. 2	• •	1
Errand boy	. 1		1
Felt worker	. 1		• •
Fireman	. 1	1	1
Flatman	. 1	• •	
Foreman (docks)	. 1	*	***
Gardener	. 1	• •	020

				Pulmonary.	Non-Pulmonary.	Died
Greenkeeper		s)	• •	1	• •	• •
Grocer's Ass	sistant	• •		1	• •	• •
Hairdresser				1		• •
Hawker				1	1. b. dr	••
Heater		• •		1	000219 00	
Housewives	• •			53	4	13
Insurance a	gent			1	allo ·	
Iron turner	••			• •	and perfort	
Jam bottler	• • • •			• •	real state of the	
Labourers-	-boilermake:	r's		1	"*** in the man	
	bricklayer's	S		2	i i de sontera c	
× •	builder's			1	0.60,700,570	
	dock			10	Tombo . copyro	_
	gas works			2	TO THE PARTY	
	general			4		3
	oil works	W-11	Man-	12 1		
	plater's	1.0	W	= :0110	1 T 48	
	railway					W 1
	shipyard				the March	
	soap work				461	
	water wor	ks			Little In	
Label sticke	er	1			or oil on o	
Laundress	1 1 1	10			Own India	
Milk dealer				1	Earl No.	
Milliner .				1		1
Navvy .				1	A Dinug	1
Painter .				5		3
Pawnbroker	r's assistant			1		
Plumber .			- 1	3		1
Porter (rail	way)			2		
Quarryman	• .			1	of an in-	
Rag gather				1		
Sailor .				2		1
Scaler .				2		
School teac	her			2	1	.,

China Com				Pulmonary.	Non-Pulmonary.	Dieđ.
Ship's fireman	• •	• •	• •	3	• •	1
Ship's steward				2	• •	
Shipwright				1	1	
Soap wrapper				2		, .
Storekeeper	. 01				1	
Tailor	9			1	1	
Timekeeper		1		1		
Upholsterer				1		1
Van driver				4		• •
Warehouseman	4			1		
Watchmaker				1		
Window cleaner				1	• •	
Wood carver				1		

Preventive Work.

The most important part of the preventive work is the home visitation, whereby the patient and his relatives are instructed in the precautions which should be taken to prevent the spread of the disease, and encouraged to adopt the modes of life best calculated to preserve good health. The Visitors, are, on the whole, well received, and the results of their constant supervision over many of the poorer homes have been gratifying.

Number of visits	paid:—				
Nurse	Gibson .		1552		
Nurse	Roberts		1138		
	Total.		2690		
Cases of neglect refer	red to S.F	P.C.C	•••		4
Sanitary defects notifie	ed to the M	Iedical Of	ficer of H	ealth	27
No. of Houses where	disinfection	n was car	rried out	after	
death or removal		••			195
Handkerchiets and Sp	itting Flas	ks.			

To encourage patients to take precautions with infectious

sputum, spitting flasks are provided free of charge. During the year 142 flasks were given. Arrangements were made for supplying patients with Japanese paper handkerchiefs at a charge of sevenpence per hundred, the cost price; the object of this is to encourage the patients to use the handkerchiefs in the manner explained to them at the Dispensary. Many patients availed themselves of the arrangements.

Educational Work.

The personal instructions of the health visitor regarding the prevention of the spread of Consumption are supplemented by the distribution of pamphlets and pictures. During the year 1913 the Dispensary published a simple pamphlet compiled by the Tuberculosis Officer, entitled "Advice to Consumptives and Others," and this is distributed widely among the patients.

Following up the successful course of lectures on the Prevention of Consumption held in November and December, 1913, the Tuberculosis Officer gave addresses dealing with the same subject and illustrated by lantern slides and diagrams to certain organisations, as follows:—

Jan. 14th. Lamplighters' Literary Society.

Jan. 22nd. Women's Co-operative Guild (North End Branch).

Feb. 9th. Co-operative Guild (Central).

March 17th. Shaftesbury Boys', Club.

March 22nd. Tranmere Adult School.

April 7th. Oxton Road Adult School.

The importance of this branch of the work cannot be over-estimated, for the spread of Consumption is largely due to ignorance, and the dissemination of knowledge of the nature of the disease is a necessary part of the campaign against it.

Other Dispensary Work.

Examination of "Contacts."

In view of the fact that Tuberculosis can only be cured when discovered in a moderately early stage of its progress, efforts are made to detect early cases of Tuberculosis occurring in those who have lived in close contact with notified cases of Consumption and who have thus run the risk of infection. During the year 274 such persons, suffering from suspicious ill-health, were medically examined either in their own homes or at the Dispensary, and among them 13 cases of Tuberculosis were found (Pulmonary 11, Non-Pulmonary 2). Incidentally it may be mentioned that in the course of these investigations other unsuspected illnesses and defects were found, and the patients were referred to the appropriate places for treatment.

Co-operation with Medical Practitioners.

The Dispensary co-operates with the Practitioners of the Borough concerning diagnosis (including routine observations of doubtful cases as regards weight and temperature variations); also in securing continuity of treatment by acting as intermediary between the various Sanatoria and the practitioners.

Total number of consultations between Tuberculosis Officer and Practitioners for various purposes during 1914, 232.

Laboratory Work.

The Dispensary undertakes free of charge the microscopic examination of sputum and fluids suspected to contain Tubercle Bacilli, in order to assist Medical Practitioners in diagnosis. During the year 322 specimens have been examined, of which 184 were from patients attending the Dispensary, and 138 were sent by Medical Practitioners.

Treatment.

General treatment is not undertaken, the Dispensary treatment being limited to the application of special methods (e.g., Tuberculin) carried on by the Tuberculosis Officer in

co-operation with the medical practitioner providing the general treatment of the case. During the year 46 patients received injections of Tuberculin. Tuberculin is proving a useful aid in the treatment of Tuberculosis, and good results have been obtained in a considerable number of the cases where patients have attended regularly and constantly.

Total Number of Visits to Dispensary.

During the year 701 patients paid 3,351 visits to the Dispensary. Of these patients, 641 had not been to the Dispensary before; the remaining 60 had attended during the previous year.

Provision of Garden Shelters.

The open-air treatment of Consumption can be carried on at home where there is sufficient garden or back-yard to allow of the erection of a simple open-air sleeping shelter. Unfortunately in large towns very few of the houses afford convenience for this. The Corporation has arranged to supply such shelters to suitable patients, at a small rent, and at the end of 1914 two shelters had been provided and were in constant use. In one of the cases the Birkenhead Insurance Committee paid the rent, the patient being an insured person.

The Corkhill Fund.

Under the will of the late Mr. John Lloyd Corkhill, of Oxton, a sum of money was provided for the assistance of persons suffering from Consumption. An arrangement has been made by which the Trustees, while retaining in every respect their position as a private body make use of the facilities provided by the Dispensary for carrying on work among tuberculous patients. Persons applying for help from the Corkhill Charity are passed through the Dispensary for classification, and the Trustees are largely guided by the Tuberculosis Officer's recommendations. This charity is doing a very excellent work in the Borough. Applications for assistance may be made to Mr. J. Carlisle, c/e Mr. Edgar Hosking, 34, Castle Street, Liverpool.

LEASOWE SANATORIUM FOR SURGICAL TUBERCULOSIS IN CHILDREN.

Many of the bodily deformities which lessen the earning power of men and women, and consequently produce poverty, result from neglected illness in childhood. One of the greatest factors in the production of deformed cripples is the so-called "surgical tuberculosis" of childhood, that is to say, tuberculosis, not of the lungs, but of the bones and joints. Tuberculosis of glands, too, may become a serious menace to life unless the child receives adequate attention.

Just as in Tuberculosis of the lungs, so also in these other forms of Tuberculosis open-air treatment affords the best chance of cure. In a large number of cases of Tuberculosis of bones and joints it is necessary to confine the little patient to bed for many months at a time, with the affected part rigidly fixed by means of carefully applied apparatus. The general hospitals cannot always give up their beds to patients requiring such long periods of treatment, when more acute and urgent cases are asking for admission. Home treatment is rarely successful since constant supervision throughout the day by skilled persons is necessary.

For these and other potent reasons it has become apparent to those who have closely studied the question that special open-air hospitals are needed, built and equipped for the one purpose and staffed by doctors and nurses of specialised training. The Leasowe Sanatorium, founded by the Liverpool Invalid Children's Association with the approval of the Local Government Board and the Board of Education, is an example of the type of Hospital required.

Early in 1914 the Birkenhead Corporation decided to arrange for Birkenhead children to be admitted to the Leasowe Sanatorium, and subsequently the Birkenhead Insurance Committee offered to co-operate in the matter. As a result 12 beds have been available since August 31st, 1914., and the cases admitted are classified below. Since "surgical Tuberculosis" is so amenable to cure, under proper conditions, it is believed that the arrangements made will have a farreaching effect in decreasing the number of deaths or deformities from this cause.

The following table gives the localisation of the disease in the cases treated:— $\,$

T 1 . 1 .		c ·			(L-0)
Tuberculosis	of	Spin	e	• • • • •	 3
,,	,,	Hip			 3
,,	,,	Knee	e		 2
,,	,,	Elbo	w		 2
,,			tarsal		
,,					1
,,	,,	Fem	ur		 1
,,					1
,,					\dots 2
,,	,,	Skin	(ulcer)	١٧.	 1
					1913
Total					 17
Disc	char	ged			 5

December 31st, 1914, the number remaining in ..12

The five cases discharged were as follows:—One case of Hip disease removed by mother against doctor's advice, after one week; one case of Hip disease which developed general Tuberculosis; one of Elbow disease, cured; one of glands, cured; one of skin ulcer, cured.

National Health Insurance.

The Tuberculosis Officer is the Medical Adviser to the Birkenhead Health Insurance Committee, and Sanatorium Benefit is administered through the Dispensary.

Notifications and National Health Insurance.

The 417 notified cases (all forms of Tuberculosis) are classified as regards National Health Insurance as follows:—

		Pulmonary.	Non- Pulmonary.	Total.
Insured men Insured women Dependents Non-insured class Not traceable		 104 33 106 48 18	9 4 76 19	113 37 182 67 18
Total	1	 309	108	417

Insured Persons and the Dispensary.

Statistics were kept throughout the year of the position as regards National Health Insurance of all patients attending the Dispensary for all purposes. The 641 persons who paid their first visits to the Dispensary during the year were classified as follows:—

Insured persons		191
Dependents		420
Non-insured class		3 0
	-	641
		041

Treatment provided by the Insurance Committee.

The following statistics refer to the work of the Birkenhead Insurance Committee which was transacted through the Dispensary, and refer to the period January 1st to December 31st, 1914, inclusive.

85

APPLICANTS FOR SANATORIUM BENEFIT.

	No. of Applicants.	Rejected on other grouds than health.	Examined	Recommended for treatment		reatment Non- Pulmonary
Men	66	1	65	64	64	
Women	20	1_11	20	20	20	_
Total	86	1	85	. 84	84	

TREATMENT GIVEN.

	Men.	Women	Total
Sanatorium Hospital Dispensary Domiciliary	31 	19 1 4 30	50 1 17 133

N.B.—This table refers to cases remaining under treatment on December 31st, 1913, as well as those whose first application were received during 1914. Many of the cases received more than one kind of treatment, and appear under different headings in the table. Refer also to the section on the work of the Dispensary, under the heading of "Treatment." Domiciliary treatment was supplemented by the provision of extra nourishment in necessitous cases

Results of Treatment.

The following figures must be construed with great care and hasty conclusions avoided. It must be distinctly borne in mind that they cannot be used to compare the value of one kind of treatment with another, because they refer to entirely different classes of cases, and different degrees of disease:—

1 10 10 10	Sanatorium		Hospital		Dispensary	
	Men	Women	Men	Women	Men	Women
Discharged (including those transferred from one form of treatment to another: (a) fit for work (b) improved (c) without improvement (d) worse Discontinued for other than medical reasons Died	17 5 3 	9 6 1 1		 i 	4 1 1 4 1	1
Total Cases in which treatment con- cluded	25 6	17 2	::	1	11 2	1 3
TOTAL TREATED	31	19		1	13	4

DOMICILIARY TREATMENT.

but and the same of the	Men	Women
Completed Domiciliary Treatment:— (a) Fit for work (b) Recommended for other forms of treatment Discontinued for other than medical reasons Died	7 6 10 29	4 2 5 5
Total treatment concluded	52 51	16 14
	103	30

County Borough of Birkenhead.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

Summary of notifications during the period from 4th January, 1914, to the end of the week ending 2nd January, 1915.

ria	Sanato	24	24	:	:
вw	Poor L	23	œ	:	:
ations ding ously other s).	riotal notification (i.e. includes or see previous or see previous or see previous or see previous or see o	63	r forms	6	4
fication	TOTAL	5	of p	9	ဆ
Noti	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 H	61	-	1
arv	10 co	-	THE REAL PROPERTY.	10	C1
	Under 5	:	300	:	:
tions fing ously other (,	Total notifical form of the control	910	185	19	54
2 851	Total	163	130	51	48
ons	sprawqu	က	က	:	:
îcati	50 55 50 55 655	310	10	:	4
Notil	45 to	15 15 15 15 15	141	.	<u>C1</u>
ury]	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 27	136	2 1	
rima	150 102 202 ± 20		151	4	10
1 1	5 10 10 to 10 15	50 10	1317		
405	- 220	1	6	616	414
Ave Periods	F. 1	Pulnionary—Males	Females		Females.
	Primary Notifications him Primary Notification attons of the other other of the other	Primary Notifications 1 1 10 15 20 25 35 45 55 55 55 65 55 65 55 65 65 55 65 65 65	1	Primary Notifications 1	Primary Notifications 1

BIRKENHEAD.—Tuberculosis of the Lung (including Phthisis) and other forms of Tuberculosis.

1		Rate per 1000	0.13 0.20 0.30 0.31 0.38 0.27 0.26 0.26
	losi.	Childr'n (under 5)	116 225 37 37 440 440 386 385 389 389
-	Tubercu	Rate per 1000	0.01 0.15 0.22 0.23 0.23 0.23 0.15 0.17 0.16
	Other Forms of Tuberculosis.	Females (all ages)	2 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
g.	Other	Rate per 1000	0.13 0.29 0.29 0.29 0.23 0.25 0.25 0.163
Number of Deaths.		(all ages)	22 23 24 23 23 23 23 23
Number	ıng.	Rate per 1000	0.65 0.52 0.52 0.44 0.44 0.47 0.52 0.52 0.47
908	Tuberculosis of the Lung. (including Phthisis.)	Females (all ages)	6672388 677024 677024 677024 677024
1110	perculosis	Rate per 1000	0.884 0.531 0.531 0.753 0.754 0.756 0.769
27.11	Tul (i)	Males (all ages)	100 99 66 88 88 98 98 104 75
Minn ou	rotal.	Death Rate	1.49 1.20 1.00 1.17 1.12 1.12 1.02
30	Tot	Deaths	178 162 182 181 187 160 160 168
ALL WALL	Population at		118982 122978 122978 125026 127108 127108 131377 131377 137740
1	Year.		1905 1906 1907 1908 1909 1910 1911 1913 1913

* This includes transferable deaths from other places.

The average Phthisis Death Rate for the last 10 years is 1.18 per 1000, equal to 152 deaths per year.

SPITTING ON TRAMCARS AND FERRY BOATS.

On the 2nd of October, I addressed the following letter to the Chairman and Members of the Tramways Committee and of the Ferries Committee.

"Gentlemen,

Under the Public Health (Tuberculosis) Regulations, 1912, it is the duty of the Medical Officer of Health or an Officer acting under his instructions (the Tuberculosis Officer) to 'take such steps as may be necessary for preventing the spread of infection and for removing conditions favourable to infection.'

"In view of the fact that consumption is spread from one person to another by means of the sputum, it seems desirable that greater efforts should be made to stop spitting in public places, and the Tramways Committee and the Ferries Committee might materially help in this difficult problem by forbidding spitting on the tramcars and ferry boats, and if necessary, by prosecuting offenders.

"I have made observations on this subject for some time, and I regret to say that the practice is prevalent in Birkenhead to a terrible extent. Dr. Banks, our Tuberculosis Officer, is personally prepared to testify to the very disgusting condition of the upper decks of the tramcars, especially at such times as the workmen are travelling to and from work. But with this we, as Public Health Officers, have nothing to do, except in its bearing upon the spread of disease. In this connection I may remind you of the work of Dr. Frank Clifford who, in samples of spit collected at random from the public places of Swansea, found Tubercle Bacilli in no less than 60% of the samples. The danger of the spread of consumption by this means is therefore a very real one.

"The Corporation of this Borough are spending large sums of money in the treatment and prevention of consumption; it seems of little use that the staff of the Tuberculosis Dispensary should spend so much of their time trying to educate the public in cleanly habits, while the practice of spitting is allowed to go practically unchecked on the Tramways and Ferries. The notices exhibited are neglected; a series of frequent and repeated prosecutions has been proved in other places to have a salutary effect.

"In the course of the educational campaign last winter, we found among the better class of working men a very strong feeling—stronger than we had realised—against the great prevalence of this habit, and the suggestion was frequently made that the Authorities were not doing all they might do to protect the public from the dangers caused by careless and indifferent people.

"I therefore strongly appeal to you and trust it will be found possible to take steps to deal effectively with this very objectionable habit.

"I am, Gentlemen,
"Your obedient servant,

(Signed) R. SYDNEY MARSDEN.
Medical Officer of Health."

These suggestions were very favourably received by the two Committees, and notice given cautioning passengers of the danger. As regards the Ferries this appears to have been all that has been done; but in the case of the Tramways, it has been found necessary to take more drastic methods, and the Committee took proceedings against 27 different persons for spitting on the cars, a fine of 2/6 and costs being inposed im each case. The costs amounted to 6/6 in the case of those living within the Borough and 7/6 for those living outside the Borough.

Inquests.—The number of inquests held during 1914 was 157, thus 7.2 per cent. of the sum of the deaths in the Borough formed the subject of official enquiries. There were no deaths due to overlaying during the year.

Deaths not Certified.—Not all the death causes which are classified represent diseases or symptoms observed and certified by medical men in attendance during the last illness, or verdicts following official investigation. A significant proportion of the death causes are entered in the register on the doubtful testimony of deceased persons' relatives or friends, or fellow lodgers. The registrars have, therefore, been required to mark in the returns furnished, every death not certified by a registered practitioner, or made the subject of a coroner's inquest. In 1914 out of the 2,153 deaths registered, 6 were marked "not certified," that is 0.27 per cent. The causes of the 6 deaths were entered in accordance with the statements of persons giving information to the registrars as follows:—

Senile Decay		11	-11.0	70.5	2
Premature Birth				196.00	1
Inanition					2
Cerebral Hæmorrha	ge				1

though how such conclusions were arrived at does not appear. In my opinion such deaths ought not to be registered without a Coroner's certificate.

The proportion of uncertified deaths to the sum of the deaths was as already stated, 0.27 per cent. as compared with 0.19 per cent. in 1913.

Deaths classified according to Localities.—Tables I., II., III., and IV., in the appendix, having been fully discussed. are followed by Table V., in which the deaths registered during 1914 are classified according to the localities in which they occurred. Opposite each street or place is the number of deaths from all causes and from zymotic diseases, registered as occurring in that street or place during the year. As it was felt that particulars of the number of deaths from all causes, from zymotic diseases and of infants in each ward, would prove interesting, and as the Street Register does not afford this information, the Table here subjoined has been drawn up.

1914	Estimated Population at Midsummer, 1914	Deaths from Zymotic Diseases M. F. M. F.		notic eases	Death rate per annum.	Infantile Death Rates per 1000 Living.	Deaths under	
Cleveland Ward	25033	215	184	22	20	15.9	4.5	114
Claughton ,,	8445	40	52	1	4	10.8	1.5	13
Grange ,,	27724	234	206	26	32	15.8	4.3	121
Argyle ,,	15921	158	118	19	14	17.3	5.0	80
Oxton "	5050	19	28	1	1	9.3	0.1	1
Egerton "	18137	105	95	16	10	11.0	1.9	36
Clifton ,,	25229	134	121	12	21	10.1	2.2	56
Mersey ,, Bebington ,,	8708 3749	58 14	50 17	14 2	8 2	12·4 8·2	0.8	20 3
Birkenhead Bor- ough including deaths in Union premises	137996	1153	1000	121	123	15.6	3.31	462

Illegitimacy.—Statistics relating to illegitimacy are important, not merely on account of the bearing which such a subject has upon the social life of the community, but also with a view ultimately of showing to some extent the influence which illegitimacy exerts upon the "chances of life" of infants, as it is well known that the death-rate of illegitimate children is considerably greater than that of those born in wedlock. I have thought it desirable, therefore, to continue these statistics in this report, as the subject is one of some interest.

The following table gives the total number of legitimate and illegitimate births, with the rates per 1,000 of births and per 1,000 living, and statistics relative to the deaths of such children under one year of age.

Illegitimate Births and Deaths, 1914.

Registr ar's Sub-District	Esti- mated	Births		Illegitimate Births		Total deaths of children	Deaths of Illegitimate children	Percentage of deaths of Illegitimates to total
	Population 1914	Legitl- mate	Illegiti- mate	to 1000 living	to 1000 births	under one year of age	under one year of age	deaths under one year of age.
Birkenhead Tranmere, Oxton,	68678	2114	87	1.2	41.1	315	21	6.6
Claughton, Bebing- ton & Workhouse		1546	45	0.8	29.0	147	14	9.5
Total	137996	*3660	132	0.9	36.0	462	35	7.5

^{• 20} births have since been transferred to other places. Hence the difference in total as given on unrevised number.

HOUSING OF THE WORKING CLASSES ACTS, 1890 to 1909.

During the twelve months ending 31st December, 1914, a large amount of work was carried out by the Department under the provisions of the Housing of the Working Classes Acts, 1890 to 1909, and the Regulations made by the Local Government Board dated 2nd September, 1910, the particulars of which are as follows, viz.:—

The number of dwelling-houses inspected for the purposes of Section 17 of the Act of 1909, and the Regulations made by the Local Government Board during 1914	1668
The number of dwelling-houses which on inspection were considered to be in a state so dangerous or	
injurious to health as to be unfit for human habitation	79
During the year no representations were actually made to the Committee, but several reports upon certain blocks of property were in course of preparation for its consideration, but were held over on account of the outbreak of the war	
The number of dwelling-houses dealt with and made fit for human habitation under Sections 14 and 15 of the Act of 1909	118
The number of dwelling-houses inspected under Section 17 of the Act of 1909, and the Housing Regulations 1910, and the defects found therein remedied under the provisions of the Public Health Act, 1875, and the houses put into a	1916
proper and satisfactory condition	1213
The number of closing orders made	48

The number of dwelling-houses, the defects of which	
were remedied without the making of closing	0
orders	24
In connection with this work it may be explained	
there are a number of houses, the subject of repre-	
sentations, now in course of being altered and	
made fit for habitation, under arrangement with	
the Health Committee, and in which the work	
was not completed at the end of the year	
The number of dwelling-housee which, after the	
making of closing orders, were put into a fit state	
for human habitation	12
The number of demolition orders made	37
The number of houses demolished	9
22 ";Back to Back" houses were converted into 11	
single "through" houses	

The general character of the defects found to exist were back to back or solid backed houses, no through ventilation, crowded and confined conditions, the want of, or insufficient yard space, water supply and sanitary conveniences, and general repairs.

I think the year's record must be considered a satisfactory one.

I am, Gentlemen,

Your obedient servant,

R. SYDNEY MARSDEN,

Medical Officer of Health.

Public Health Department, Town Hall, Birkenhead, 10th April, 1915.

THE INFECTIOUS DISEASES HOSPITAL, TOLLEMACHE ROAD.

Report for the year 1914.

HOSPITAL VISITING SUB-COMMITTEE.

MR. ALDERMAN E. G. MASON, J.P., Chairman.

Mr. Alderman Thomas Shaw.

Mr. Alderman Michael Byrne.

Mr. Councillor Robert Frame.

Mr. Councillor W. W. Kelly.

MEDICAL OFFICER AND PHYSICIAN. Dr. R. Sydney Marsden.

EXTRA PHYSICIAN.
Dr. H. H. Robinson.

MATRON.
MISS EMILY YEOMANS.

the second section of the

There has been no addition to the number of beds in the hospital during the year. The Staff consists of the Matron, 17 nurses, 19 female servants, an engineer, 2 porters and 2 gardeners.

The total number of patients treated in the hospital during the year (January 1st to December 31st) was 424; of these 358 were admitted during the year, and 66 remained in hospital from 1913. Out of those admitted 15 died, giving a death-rate of 4.13 per cent., a low percentage.

The following table gives a summary of the cases treated in the hospital during the year 1914, along with the results obtained.

DISEASES		F.		ke- ered	Died		
			M.	F.	M.	y.	
Scarlet Fever-remaining	36	26	36	26	_	_	
admitted	135	151	129	150	6	1	
Typhoid—admitted	6	4	5	3	1	1	
Diphtheria—remaining	_	4		4	_		
admitted	28	32	26	28	2	4	
Croup	1	1	1	1		-	

The new small-pox hospital plans have already passed the Council, and it was expected that the building would be ready by the end of 1915; but owing to the outbreak of the war the work is not being proceeded with at present.

By special agreement with the Corporation of Wallasey, small-pox cases from this Borough are now sent to the Wallasey Small-pox Hospital.

A change has taken place at the Hospital in regard to the length of time for the detention of Scarlatina cases. Acting on the modern views held in regard to such cases, we have now for a very long time discharged all uncomplicated cases of Scarlatina at the end of the fourth week, whether they are peeling or not and with marked advantage as the number of return cases has been greatly reduced whilst the capacity of the Hospital for Scarlatina cases has been increased by one third. It was formerly the custom to isolate for a minimum of six weeks, or until such a time as peeling was completed. We now disregard peeling after the middle of the fourth week, so that we save two weeks' expenses on each case, and have thereby greatly reduced the cost of the Hospital, whilst a third more Scarlatinal patients can be treated with the same number of beds, a very important matter when the disease is epidemic.

THE E. P. SMITH MEMORIAL CONVALESCENT FUND.

FOR PATIENTS WHO HAVE BEEN TREATED IN THE FEVER HOSPITAL.

Particulars relating to this Fund were given in my Report for 1903.

There were three suitable cases to receive benefit by the Fund during the year 1914, viz.:—

all the second of the figure

May, A. H.

August, P. M.

October, J. R.

APPENDIX.

- 1.--Vital Statistics of Whole District during 1914 and previous years.
- 2.—Table showing Death Rates each week during 1914.
- 3.—Causes of and Ages at Death during 1914.

THUS

- 4.—Cases of Infectious Diseases notified during 1914.
- 5.—Infantile Mortality during the year 1914.
- Table I.—Deaths Registered in the County Borough of Birkenhead during the year ending December 31st, 1914, classified according to age.
- TABLE II.—Weekly Register of Deaths in the County Borough of Birkenhead for the year ending December 31st, 1914.
- Table III.—Weekly Condensed Register of Deaths for 1914.
- Table IV.—Weekly Condensed Register of Meteorological Results for 1914.
- TABLE V.—Street Register of Deaths—1914.
- Supplement to Table V.—Return of Deaths in Birkenhead Union Hospital and Workhouse, registered in 1914.

Vital Statistics of Whole District during 1914 and previous Years.

							٤	99			
DISTRICT.	ages.	Rate.		15.4	15.4	16.0	14.7	14.9		15.6	
ING TO THE	At all ages.	Number.		1965	1993	2107	1964	2032		2153	
PRANSFERABLE DEATHS NETT DEATHS BELONGING TO THE DISTRICT.	ar of age	Rate per 1,000 Nett Births.		122	135	136	86	117		122	
NETT DEAT	Under 1 year of age	Number.		458	209	909	371	458		462	0
BLE DEATHS	of Residents not registered in the District.			35	30	82	. 80	106		126	7
TRANSFERA	of Non-	residents registered in the District.		16	17	29	36	46		85	11
DEATHS ED IN THE	Rate.			15.3	15.3	15.6	14.3	14.5	-	[↑] 15.3	11
TOTAL DEATHS REGISTERED IN THE	DISTRICT.	Number.		1946	1980	2054	1920	1972		2112	1
	tt.	t. Rate.		29.4	28.8	28.4	28.3	28.7		27.3	0 0
BIRTHS.	Nett.	Number.		:	:	3732	3774	3907		3772	11
	£	N N		3737	3730	3748	3793	3931		3790	
	Population estimated to Middle of each Year.			127108	129227	131377	133521	135740		137996	
Year.				1909	1910	1911	1912	1913		1914	

At Census, 1911. 24,343 130,794 Total families or separate occupiers ... Average number of persons per house... (exclusive of area covered by water) Number of inhabited houses ... Total Population at all ages Area of District in acres

Table shewing Death Rates each week during year 1914.

(Unrevised as to transferable deaths from other districts).

Week Ending 1914.	No. of Deaths.	Death Rate per 1,000.	Week Ending 1914.	No. of Deaths.	Death Rate per 1,000.
January 7 14 21 28 February 4 11 18 25	40 44 40 37 42 42 39 44	15.0 16.5 15.0 13.9 15.8 14.6 16.5	July 8 15 22 29 August 5 12 19	34 40 34 36 45 33 37 22	12.8_ 15.0 12.8 13.5 16.9 12.4 13.9 8.2
March 4 11 18 25 April 1	37 27 29 38 46	13.9 10.1 10.9 14.3 17.3	September 2 9 16 23 30	31 31 28 47 43	11.6 11.6 10.5 17.7 16.2
8 15 22 29	43 40 38 35	16.2 15.0 14.3 13.1	October 7 14 21 28	59 40 54 52	22.2 15.0 20.3 19.5 12.8
May 6 13 20 27 June 3	34 26 38 29 27	12.8 9.7 14.3 10.9 10.1	November 4 11 18 25 December 2	34 42 49 57 44	15.8 18.4 21.4 16.5
10 17 24 July 1	25 25 31 36	9.4 9.4 11.6 13.5	9 16 23 (8 days) 31	61 42 61	16.5 22.9 15.8 22.9

4
1914
ar
Year
during
Death
at
Ages
and
of,
Causes

TOTAL DEATHS IN PUBLIC	INSTITU- TIONS IN THE DISTRICT	8 : : 23 : : 6 : 6 : : 1 : 1 : 1 : 2 : 2 : 2 : 2 : 2 : 2 :	196
DEATHS IN OR BELONGING TO LOCALITIES AT ALL AGES.	Work house	06	305
	Beb- ing- ton	E:::::::::::::::::::::::::::::::::::::	31
	Oxton	\$\frac{4}{6}\pi \cdot \c	47
RELONGING OF ALL AGES.	Clau- ghton	9 : : : : : : : : : : : : : : :	92
N OR B	Tran- mere	80 - 1 : 1 : 2 : 2 : 2 : 2 : 2 : 2 : 2 : 2 :	563
ATHS D	Bir- ken- head	1111 112	1115
Q	Whole Whole	2147 667 667 667 667 667 667 667 667 667 6	2153
TS,	65 and up- wards	4 5	449
ESIDEN T THE	5 and 15 and 25 and 45 and 65 and under under under uper 25 45 wards	2	456
S OF R	25 and under 45	85 : : : : : : : : : : : : : : : : : : :	278
ED AGE	15 and under 25	8 : : : : : : : : : : : : : : : : : : :	888
SUBJOINI 16 WITHI DISTRICT	5 and under 15	8 : : : : : : : : : : : : : : : : : : :	06
THE STURENCE	2 and under 5	3 : · · · · · · · · · · · · · · · · · ·	142
T DEATHS AT THE SUBJOINED AGES OF RESIDEN WHETHER OCCURRING WITHIN OR WITHOUT THE DISTRICT.	1 and under 2	88 :- : : : : : : : : : : : : : : : : :	188
NET DEATHS AT THE SUBJOINED AGES OF RESIDENTS, WHETHER OCCURRING WITHIN OR WITHOUT THE DISTRICT.	under 1 year	0 8 4 · · · · · · · · · · · · · · · · · ·	462
Z	All	2147 677 677 677 677 677 677 677 6	2153
	CAUSES OF DEATH.	All causes (Certified Chicken-pox Enteric Fever Small-pox Massles Scarter Fever Whooping-cough Diphtheria and Membranous Croup Influenza Erysipelas Cerebro-Spinal Fever Other Zymoto Diseases Phthisis (Pulmonary Tuberculosis) Tuberculous Morningtis Brounditis (Pulmonary Tuberculosis) Tuberculous Morningtis Brounditis (Pulmonary Tuberculosis) Tuberculous Morningtis Brounditis and Typhilitis Alcoholism Appendictis and Typhilitis Appendictis and Typhilitis Appendictis and Typhilitis Appendictis and Typhilitis Appendictis and Bright's Disease Other accidents and diseases of Pregranding Permature Birth Nobert Deaths, excluding Suicide Suicides Brain Disease Heart Disease	

Cases of Infectious Disease notified during the year 1914.

Total Cases	Hospital	:: 62:58:58:58:58:58:58:58:58:58:58:58:58:58:	358
	Workhouse n- n- conts from and outside ents	:: ::::::::::::::::::::::::::::::::::::	:
ality rict.	Work In- patients and out- patients	:: :∞-::::=:::::::::::::::::::::::::::::	36
Loca	Bebington	:: ∞. ⊶∞ ::::::: ∞ e1	17
each the	Mersey	:: 8 9 6 :: 1 :: : 8 2 2	7.1
d in	Egerton	441 62 7.	163
va)	Clifton	:: 0:0:4 :: :: :: :: :: :: :: :: :: :: :: :: :	185
es no	Claughton	.: 11.8 3.1 .: .: . 4 .2	67
Total Cases notflied in each Locality (e.g., Parish or Ward) of the District	notxo	:: ∞ :: :::: 01 :	28
Tota (e.g.,	Cleveland	:: 0114 ::: 12 ::: 4 61	157
	Grange	57 50 55 1 1 : :	199
	Argyle	.: 1110 .: 8 2	115
	65 and upwards	:: ::::::::: " =	16
	t5 to 65 years	:: :8: 130: .:: .:	93
	25 to 45 45 to 65 years years	1 000 ::: 4:: 130 000 11	181
notified.	15 to 25	.: 1111 .: 2 .: 52	129
Number of Cases notified	5 to 15 years	:: 82 62 5 5 5 5 5 5 74 74 75 5 5 5 5 5 5 5 5 5	406
Number	1 to 5 years	:: :::::::::::::::::::::::::::::::::::	192
	Under 1 year	:: 4ww::::::: : e	19
	Not given	:::::::::::::::::::::::::::::::::::::::	61
	At all	126 91 371 22 22 6 6 6 7 4 4 4 309	1038
	Nothiable Disease.	Small-pox	Totals

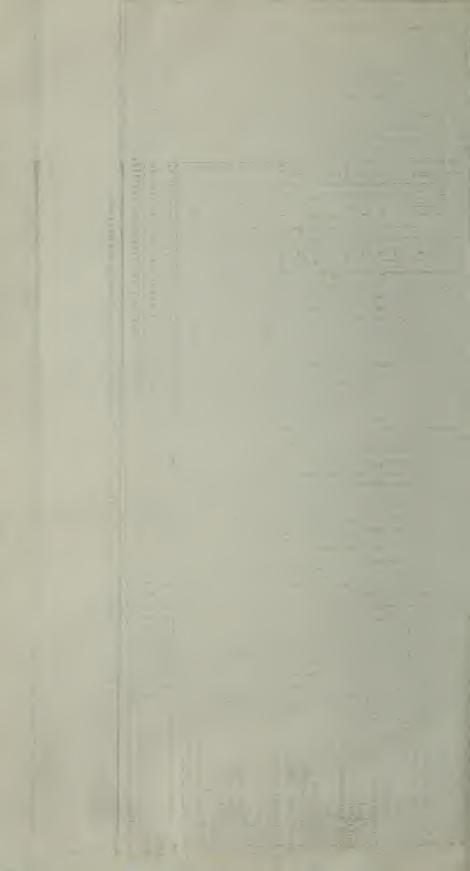
	Total Deaths under I year	459	:421 :01 :024 :034 :035 :04 :01 :01 :02 :02 :02 :02 :02 :02 :02 :02 :02 :02	462		
	suom		: 10 : 10 : 10 : 10 : 10 : 10 : 10 : 10	87		
	.snom	75	:«u: 4:uu::4:wds5:u:::::xou	75	ts 427	
	suom	72	:: - : - : : : : : : : : : : : : : : :	72	legitimate infants 427 illegitimate infants 35	
4.	I-3 mons.	88 :	: : : : : : : : : : : : : : : : : : :	888		
year 1914.	letoT I vəbnu dənom	137 3	::::::::::::::::::::::::::::::::::::::	140	the year c	
Infantile Mortality during the y	3-€	26	::::::::::::::::::::::::::::::::::::::	26	Nett Deaths in the year of	
	2-3 7-6-6-14-3	13	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	13	Nett	
	1-2 Weekg	18	: : : : : : : : : : : : : : : : : : :	18	3646 e 126	
	Under I week	380	::::::::::::::::::::::::::::::::::::::	83	legitimate 3646 illegitimate 126	
	CAUSE OF DEATH.	All Causes:— Certified	Small-pox Chicken-pox Measles Seafiet Fever Whooping Cough Erysipoles Tuberculous Meningitis A baominal Tuberculousis Other Tuberculous Diseases Meningitis (not tuberculous) Convulsious Laryngitis and Croup Bronchitis Prounchitis Bronchitis Brickers Convulsious Convulsious Laryngitis at Brith Attelectasis Injury at Birth Attelectasis Premature Birth Attelectasis Premature Birth Attelectasis Other Causes	The state of the s	Nett Births in the year $\binom{1}{k}$	

1		CLEVELAND, CLAUGHTON, GRANGE AND ARGYLE WARDS.	OXTON, EGERTON, CLIFTON AND MERSEY WARDS. BEBIN STON WARD, UNION HOSPITAL.	SUMMARY.
CLASS	CAUSES OF DEATH.	AGES AT DEATH Conder 1	AGES AT DEATH. SEX. AGES AT DEATH.	SEX. SEX.
	All Causes Specified Causes	184 144 7 60 45 45 45 48 75 57 107 96 100 98 18 22 647 560 1207 184 143 73 (9) 14 45 45 18 74 57 107 96 97 98 16 22 640 559 1199	30 1100 23 43 21 1717 1 10 20 17 20 20 19 21 21 21 21 21 21 21 21 21 21 21 21 21	
1 1 1	(CLASSES.) Zymotic Diseases Constitutional Diseases Local Diseases Developmental Diseases Violent Deaths	19 31 25 17 16 16 3 3 9 3 2 5 4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	8 11 19 133 133 266 49 24 77 167 156 323 95 72 167 632 525 1157 20 17 37 154 151 207
VI	Other Diseases not Classed	13 25 25 17 14 16 3 3 5 3 1 4 4	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 10 16 114 118 232
и.—	3. Dietetie	3 2 2 3 3 2 8 14 11 16 3 7 1 3 33 47 80	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 1 3 8 4 12 11 11 22
III.—	1 Dissues of Nervous System 2 Organs of Circulation 3. Respiratory Organs 4. Digestive Organs 5. Urinary Organs 6. Organs of Generation	6 4 5 4 4 2 3 3 6 4 18 16 9 11 6 3 57 47 104 1 1 7 4 5 7 11 17 15 13 1 39 42 81 52 28 30 20 14 17 9 0 23 12 32 23 24 23 4 5 188 143 331 35 24 4 7 3 4 5 2 3 2 7 5 4 4 2 61 50 111 3 1 1 3 5 3 8 9 9 6 2 26 19 45	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	15 13 28 100 82 182 27 25 52 108 108 216 38 20 67 282 230 512 6 1 7 88 66 154 5 4 9 43 34 77
IV.—	7. Organs of Locomotion 8. Integumentary System 1. Developmental Diseases of Children 2. Adults	1 26 27	[레이이이어이이 20일 10010 - 12 - 12 - 12 - 12 - 12 - 12 - 1	3 2 5 47 41 88
V	3 Old People 4. Discases of Nutrition 1. Accident or Negligence 2. Romielde 3. Smeide	38 20 5 1 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	14 14 28 47 76 123 3 3 60 29 89 4 4 51 24 75 2 1 3
VI.—	Other Discuss not Classed Other 1 - Miaswatic. 1. Small Pox			1 1 12 4 16
	2. Mensles 3. Scarlatina (Scarlet Fever). 4. Diphtheria Quinsy 6. Croup (Membranous)	1 014 7 0 0 1	2 4 2 3 6 1 9 9 18 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1	2 3 5 2 3 5 1 4 5 35 32 67 5 1 6 3 8 11
	7. Whooping Cough Typhus Fever 8. Typhoid or Enteric Fever (Simple Continued Fever 9. Erysipelas 10. Puerperal Fever	2 1 3	1	2 2 4 21 28 49
	11. Carbuncle 12. Influenza 13. Dysentery 14. Diarrhœa (Bowel Complaint) 15. Cholera (Simple) 16. Ague	6 15 6 2 2	1 3 1 2 3 6 5 10	1 1 3 2 3
	17. Ccrebo-Spinal Eover 18. Acute Pollomychitis 19. Other Zymotic Discuses 20. Beri-Beri Onder 2 —Extremic			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1. Syphilis 2. Stricture of Urethra 3. Hydrophobia 4. Glanders Order 3.—Difference			2 1 3 7 4 11
	1. Privation 2. Inanition of Infancy 2. Want of Breast Milk 3. Purpura and Scorvy Ricket 4. Mechalism (Delirium Tremens—	1 1 1 3		5 5 10 3 2 5 1 1 2
	4. Alcoholism Delirium Tremens 5. Ptomaine Poisoning ORDER 1.—PARASITIC 1. Thrush 2. Worms, &c.			9 3 5
п	ORDER 1 —DIATHETIC. 1. Gout 2. Dropsy Anæmia 3. Cancer		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 1 3 5 8 5 7 22 61 53 114
	4. Noma (Cancrum Oris) 5. Mortification (Gaugre) 6. Abscess of Tumour 7. Rheumatism Order 2.—Tubercular			2 2 2 3 3 3 2 2 4 6
	4 CasaViola	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1 2 1 1 2 1 1 3 1 5 6 6 2 1 4 5 9 1 1 1 2 1 1 2 1 1 5 6 6 2 1 24 15 39 1 1 1 2 5 2 12 8 11 6 1 2	1 1 1 1 2 2 3 8 17 45 75 66 141
т.–	6. Other Tubercular Discay ORDER 1.—NERVOUS SYSTEM. 1a. Neurasthenia 1. Myelitis 2. Apopleny	1 2 1 2 2 3 1 1 5 8 13 1 1 1 1 1 1 1 1 2 2 1 3 6 2 8		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	3. Par dysis 4. Shock 5. Chorea 6. Epilepsy 7. Convulsion 9 (Spinal Disess)	6 3 3 2 1		2 3 5 14 7 21 1 1 2 1 3 1 1 1 6 7 1 1 2 8 20
	8. (Brain Disease (undistinguished) 9. Nervous Debility 10. Neuritis ORDER 2.—ORGANS OF CIRCULATION. 1. Pericarditis	. 1 2 2 3 2 3 2 2 4 8 10 7 8 1 2 28 31 57 	2 1 1 1 1 3 2 5 7 5 14 19 27	0 9 19 51 56 107
	2. Ancurism Angina Pectoris Embolism and Thrombosis 3. Hease of Blood Vessel Heart Disease (undistinguished). 4. Atheroma of Blood Vessels	1 1 1 2 2 3 5	1 1 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 . 3 4 3 7 1 1 . 5 6 2 22 44 82 91 173 4 2 8 12 8 20
	5. Homorrhage ORDER 3.—RESPIRATORY ORGANS. 1. Laryngistis Croup and Tonsillitis 1. Laryngismus Stridulus 2. Bronchitis 3. Pleurisy	17 7 3 1 1 1 3 1 1 9 0 15 17 3 4 54 30 03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 3 3 3 4 7 1 21 38 83 74 157
	4. Pneumonia 5. Asthma 6. (Congestion of Lungs Disease of Lungs (undistinguished) 7. Asphyxia	34 19 27 24 12 15 8 6 20 10 17 13 8 5 1 1 127 93 220 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1	3 8 9 2 4 1 1 7 5 6 2 4 7 4 36 35 71 1 10 2 5 2 3 1 2 20 1 1 1 1 2 3 3 3 1 1 1 1 1 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 27 188 135 318 3 2 5 1 6 7 1 1 2 4 3 7
	ORDER 4.—DIGESTIVE ORGANS. 1. Stomatitis & Pharyngitis 2. Gastritis Enteritis 3. Peritonitis and Appendicitis	1 1 1 1 1 1 5 2 7 1 1 1 1 1 3 3 3 3 3 7 8		1 1
	4. Ascites 5. Perforation of Intestines (Ulcerat'n) 6. Hernia (Rupture) 7. Obstruction of Bowels 8. Intussusception 9. Stricture of Intestines	1 1 2		1 1 1 1 1 1 2 3 2 1 2
	10. Fistula 11. Hæmatemesis 12. Pancreas Diseases (undistinguished 13. Jaundice 14. Hepatitis			1 1 2 2
	15. Dyspepsia 16. Colic (Lead or otherwise) 17. (Liver Disease 18. Spieen Disease 19. Disease of Intestines	1		i i 4 4 8 12
	ORDER 5.—URINARY ORGANS. 1. Nephritis 2. Ischuria 3. Bright's Disease (Nephria)		1 1 2 1 3 3 2 1 7 7 14 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2	2 1 3 24 20 44
	5. Stone (Calculus) 6. Oystitis 7. (Addision's Disease (unclassed) 7. (Kidney Disease 8. Uræmia			1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	ORDER 6.—ORGANS OF GENERATION. 1. Ovarian Disease 2. Uterus Disease, &c. 3. Eclampsia, (Puerperal) ORDER 7.—ORGANS OF LOCOMOTION.			
	1. Arthritis (Synovitis) 2. Joint and Bone Disease ORDER S.—INTEGUMENTARY SYSTEM. 1. Blood Poisonin: 2. Pyæmia and Septicæmia 2. Phlegmon 2. Uller	1 1 2 2		2 3 3 6
IV	1. Premature Birth	21 20 21 20 41	310	1 3 36 31 67
	2. Cyanosis 3. (Spina Bifida 4. Other Malformations 5. Teething ORDER 2.—DISCASES OF ADULTS.	3 6		1 2 . 2 1 1 7 8 15 2 2 4
	Childbirth (see Puerperal Fever) Pregnancy Onder 3.—Diseases of Old People. Old Age.	13 27 6 9 10 35 54		14 28 47 76 123
V	ORDER 4.—DISEASTS OF NOTRITION. 1 Atrophy and Deblity ORDER 1.—(ACCIDENT OR NEOLIGENCE, 1 Fractures and Contusions-Crush	38 20 5 1 1 44 21 65	2 6 1 1	3 60 29 89
	2. Wounds Gun Shot 2. Wounds Cut, Stab 3. Wounds from Needle 4. Burns and Scalds 5. Poison			2 12 7 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	5. Poison 6. Drawning 7. Sufficiation 8. Otherwise ORDER 3.—(HOMICIDE). 1. Manslaughter	1		9 2 11 6 6 12 1 1
	ORDER 4 — (SUICIDE). 1 Wounds Gun Shot Cut, Stab			1 1
v	3. Poison 4. Drowning 5. Strangulation (Hauging) 5. Not stated 1. Other Discuss (not classed)		1 1 2 2 1 5 7	1 1 12 4 16
	10тац	184 144 73 60 45 45 45 38 76 57 107 96 100 98 18 22 647 560 1207	19 44 23 23 23 24 17 13 33 32 oF 47 72 88 22 25 316 224 610 2 1	129 305 1153 1000 2153



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Deaths in the	
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II.—Weekly	
TABLE	

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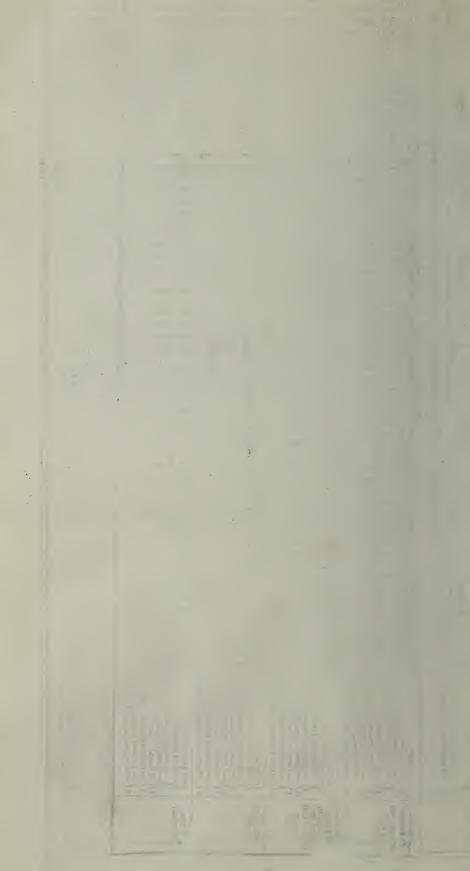


TABLE III.—Weekly Condensed Register of Deaths for 1914.

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TABLE IV .- Weekly Condensed Register of Meteorological Results for 1914.

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					760.32	6.748	£8.06	€6.74	406.62
QR.	HT4	1 46.18	0.51	6.68	098.7	192.9	46.62	45.13	088.62
	5 5	00.89	15.8	1.77	128.0 727.0	8.42	09.98	11.68	29.823
	50	90.99	9.61	2.48	88£.0	6.61	79.24	80.0₽	248.62 248.62
	49	06.98	7.62	1.77	1.531	2.88	71.84	43.60	724.62
	48	24.17	14.5	9.87	899.0	21.5	76.8₽	41.95	677.62
ME SS	8 47	74.8I	8.01	7.81	I\$0.0	9.I	30.68	81.78	311.08
WEEKS	45 46	68.69	2.72	1.17	812.1	8.82	07.84	45.73	\$98.6Z
	44	43,45	7.81	8.27	\$\$ 9 *0	6.7I	09.6₺	18.74	979.62
	43	91.62	8.8	f.18	200.0	8.2 19.9	24:64 88.84	71.74 71.74	\$\$9.62
	42	14.28	1.6	2.47	0.160	7.8	70.23	19.67	970.08 110.08
	41	00.89	12.7	I.77	000.0	0.0	\$2.88	06.63	\$18.08
	-04	88.68	0.71	2.43	\$\$0.0	7.2	06.83	87.03	362.08
QR.	аяв	£8,09	19.5	3.63	\$80.8	158.3	72.00	06.88	196.62
	38 39	26.86	1.11	32.8	000.0	0.0	53.50	72.6₺	30.275
	37.3	\$6.18	6.81	7.88	1.844 932.1	8.62	¥1.66	17.03	217.62
	363	36.90	8.01	1.78	780.0	2.3	88.28	76.83 88.83	806.62
	35	₹9.69	10.5	0.08	818.0	8.11	65.25	76.68	30.000 832.08
WEEK	34	70.14	2.87	1.76	161.0	6.₽	69.19	21.83	\$01.08
W	33	99'††	7.41	4.14	£90.0	2.3	21.89	17.83	30.127
	1 32	99.88	13.5	2.49	644.0	12.1	87.88	69.66	₱27.62
	30 31	00.03	13.3	2.46	692.0	11.2	12.86	69.66	008.62
	29 3	88.77	8.82	1.77	\$8.0 \$8.0	4.81 3.01	19.19	27.83	289.62 289.62
	288	68.66	9.0I	4.18	815.0	8.11	25.23	82.88	350.62
	22	₱9.69	₽.11	7.66	399.I	8.22	t6.23	82.83	30.013
QR.	SND	11.33	0.61	8.63	182.4	2.811	52.35	48.52	30.08
	26	88.39	3.81	1.78	373.0	₹'9	56.65	74.23	30.125
	125	57.73	8.8	3.85	863.0	0.6	28.13	86.93	30.08
	324	96.08	15.0	\$.17	106.0	6.42	86.66	20.13	268.62
	22 23	1 24.17	8.71	8.23	022.0 670.0	8.7 6.8	38.03 7₽.83	\$0.74	30.208 ≈ 381.08
m	212	26.48	7.01	8.23	191.0	8.6	28.66	20.23	162.08
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WE	119	88.88	0.82	7.38	376.0	8.28	17.64	46.12	089.63
	17 18	19.74	6.11	54.2	000.0	$\frac{8.2}{0.0}$	28.74	78.44	862.08
	161	69.89	0.41	7.88	280.0	8.0	16.88	88.84	862.08 862.08
	151	1 70.19	0.42	1.17	668.0	8.11	01.74	77.84	\$61.62
	#	88,49	6.4.I	8.27	621.0	9.01	\$4.03	82.74	616.62
.яQ	TSI	01.48	1.81	6.27	616.₽	1.871	42.08	46.68	\$47.62
	13	91.46	9.11	7.68	988.0	7.4.1	42.42	12.0₽	164.62
	12	\$6.18	6.02	2.47	788.0 868.0	1.02	78.04	38.85	988.62
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WEEKS	-1	20.98	8 61	1.78	229.0	9.82	₽7.6₽	42 82	723.62
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		Percentage of time Wind blew 5. S.W., W., and N.W. 6. 9	Mean Hourly Horizontal Motion	Average Percentage of Cloud to Clear Sky	Rainfall in Inches	Rainfall as to Hours	Thermometer Means	Mean of Evaporation	Barometer Means reduced to Sa Sea Level and to 32° Fahr.
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Mean reading of the Barometer for 45 years reduced to Sea level, and to 32° Fahrenheit-29.923 in. The Meteorological Results are for the 52 weeks ending December 26th 1914.

TABLE V.STREET REGISTER OF DEATHS.

Abbey Street 4 Atherton Street Athol Street Athol Street Athol Street 1 Athol Street 1 Austin Street 5 Ackworth Place 1 1 Back Arthur Street 5 Acton Road 3 Back Beckwith Terrace Back George Street 1 Adelaide Road 3 Back George Street 1 Albany Road 1 Back Havelock Street 1 Albert Place 2 1 Back Livingstone Street 1 Albert Road 1 Back Oliver Street 1 Back Oliver Street 1 Albert Street Back Price Street Back Price Street Back Price Street 9 Albert Avenue 4 Balfour Road 2 Albert Terrace 6 Back St. Anne Street 9 Alcexandra Drive 1 Balls Road 2 Alexandra Road 3 Bankeille Road 2 Allerton Grove 1 Barnon Street 3 Allerton Road Barton Street <	Streets.	Total from all Causes.	From Zymotic Diseases only.	Streets.	Total from all	From
Ashley Street Bentley Road 1 Ashville Road 2 Aspendale Road 2 Aspinall Street 1 Asquith Avenue 1 Astonwood Road 2 Bentley Road 1 Berres Street 5 Berry Street 5 Bertha Street 4 Bessborough Road	Abbey Terrace Abbot Street Aberdeen Street Ackworth Place Acton Road Adelaide Road Adelphi Street Albany Road Albert Place Albert Road Albert Street Albert Terrace Albert Terrace Albion Street Alcott Avenue Alexandra Drive Alexandra Drive Alexandra Road Alfred Road Alfred Road Alfred Road Alma Street Alpha Drive Alexton Grove Allerton Road Alvanley Place Alverstone Avenue Amery Grove Anglesea Terrace Apple Grove Argyle Street Argyle Street Argyle Street Argyle Street Arno Road Arnowe Place Arthur Street Ash Road Ashburton Road Ashburton Road Ashford Road Ashford Road Ashford Road Ashford Road Ashendale Road Aspendale Road	4 2 1 3 1 2 1 2 1 2 1 3 2 1 2 1 2 1 2 1 2	1 1 1 1 1 1	Athol Street Athol Terrace Austin Street Back Arthur Street Back Arthur Street Back Beckwith Terrace Back George Street Back George Street Back Livingstone Street Back Myrtle Street Back Oliver Street Back Price Street Back St. Anne Street Balfour Road Balls Road Balls Road Balls Road Banning Street Barnard Road Banning Street Barton Street Baytree Road Beaconsfield Road Beaufort Road Belington Road Beckwith Street Bedford Place Bedford Place Bedford Road Bedford Street Beech Road Been View Belgrave Terrace Belmont Belmont Grove Bennett's Hill Bentinck Place Bentinck Street Bentinck Street Bentinck Terrace Bentley Road Beresford Road Beresford Road Beresford Road Beresford Road Berner Street Bertha Street	5 1 1 1 9 2 8 8 2 3 3 3 3 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1	

TABLE V.—Continued.

Streets.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Blacases only.
Bidston Avenue	2		Carnforth Street	2	
Bidston Road	$\tilde{2}$		Carnforth Terrace	î	1
Birch Road				1	1
Birkenhead Park			Caroline Place	3	
Blackpool Street	1		Carrington Street		
Blandford Street	•		Cathcart Street	15	1
Blucher Street	2	1	Catherine Street	3	
Bold Street		1	Cavendish Drive		
Booth Street	3	2	Cavendish Road		
Borough Road	26	6	Cavendish Street	4	
Boundary Road			Cearns Road	3	
Braid Street	2	1	Cedar Street		
Brancote Road			Challis Street	1	
Brandon Cottages			Chamberlain Street		
Brandon Street	1		Chapel Place (B'head)	2	2
Brassey Street	5		Chapel Place (Tran.)		
Brattan Road	3		Chapel Square		
Bray Street	2		Chapel Street	4	2
Briardale Road	2		Charlecombe Street		
Bridge Street	12		Charles Street		
Bridge End Terrace	2	/	Charlesville	3	
Bright Street			Charing Cross		
Brill Street			Chatham Road	5	
Brimstage Street			Chatsworth Road		
Brook Place	6		Chesnut Grove	1	,
Brook Square	1 7	_	Chester Street	8	1
Brook Street	47	5	Chetwynd Road	2	
Brookland Road	1		Christchurch Road	2	
Brougham Street	9		Church Road	6	
Brougham Street Browning Avenue	4		Church Street	15	
Brunswick Street	8	2	Church Terrace	3	
Buckingham Avenue	i	-	Churchill Avenue	$\frac{3}{2}$	
Budworth Road	1		Circular Road	$\bar{2}$	1
Bulwer Street			Clare Street		
Burton Street	3		Clarence Road	1	
Buxton Road	1		Clarendon Street	1	1
Caerwys Grove	1		Claughton Firs	2	
Caldy Place	1		Claughton Place		
Cambridge Place			Claughton Road	15	2
Camden Street	6		Clayton Street	1	
Campbell Terrace		1	Cleveland Avenue	2	
Camperdown Street			Cleveland Street	26	3
Canning Street	2		Clifford Street	3	
Cannon Hill			Clifton Crescent	1	
Canterbury Road			Clifton Road	3	
Cardigan Street			Clive Road		1
Carlisle Street	4	2	Club Row		
Carlton Mount	,		Clark Street	1	
Carlton Road	1		Clyde Street	10	1 9
	1	L.	1	U 1	

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TABLE V.—Continued.

Streets.	Total from all Causes.	From Zymotic Diseases only.	Streets.	Total from all Causes.	From Zymotic Diseases only.
Cobden Place	5	1	Dundonald Street Eagle Court Earl Street	1 1 3	ı
Collingwood Street Columbia Road	4	l	East Bank	1	
Colwyn Street	2		Eaton Road	1 3	
Comet Street	4	1	Edgar Street	1	
Conway Place	11	3	Egerton Road	3	
Cook Street	1		Elderwood Road Eldon Place	10	
Corfu Street	6		Eldon Road Eldon Street	6	
Coventry Street	3	1	Elfet Street	$\frac{1}{2}$	
Cranbourne Avenue Craven Place Craven Street	3 1 7	1	Elizabeth Place Elm Grove Elm Road	1	
Cressington Avenue Crofton Road	1	1	Elm Street	7	3
Cromwell Street	1		Enfield Terrace Erskine Street	1 2	1
Crown Street	$\frac{1}{2}$	2	Esplanade Etna Street		
Cumberland Place Curzon Avenue	1		Euston Grove Exmouth Street	$\frac{2}{12}$	3
Cyprus Street	5	1	Falcon Road	1 2	
Daffodil Road Dale Street Davies Street	5 4	3	Fairfax Road	1	
Dee Street	*	,	Falkland Street Farm Road	3 2	1
Derby Road Derby Street	2 2		Fearnley Road	8	3
Derwent Road Devonshire Place			Flamank Street Flaybrick Hill	11	3
Devonshire Road Dial Road			Flint Street	$\begin{vmatrix} 2 \\ 1 \end{vmatrix}$	1
Dingle Road Donegal Street Doric Street	1		Fore Street	4 2 5	1
Douglas Street	4		Fox Street	10 3	4
Downham Road Duke Street	2 9	1	Frederick Street Freeman Street	5	
Duncan Street			Frodsham Street	6	1

TABLE V.—Continued.

Streets.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Garfield Place Garner's Place Garner Street George Street Gerald Road German Terrace Gertrude Street Geley Street Gladstone Road Gladstone Street Gladstone Street Glasgow Street Glamore Road Glover Street Gomer Street Gore Street Gore Street Gore Street Gorsefield Road Gothic Street Grace Street Grace Street Grace Ferrace Grafton Street Grange Road Grange Road Grange Road Grange Road Green Lane Green Lane Green Lawn Greenbank Road Greenfield Street Greenway Road Grenville Road Grosvenor Place Grosvenor Road Grosvenor Street Grove Mount Grove Road Haldon Road Haldon Road Haldon Road Haldyon Road Hampton Street Hamilton Street Hamilton Street Hamilton Street Hampden Road Hampden Road Hampden Road Hampden Road Hampden Road Hampton Street	2 10 1 2 1 1 4 2 3 4 4 4 1 1 1 8 3 1 8 1 8 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	Harland Road Harper's Court Hartington Avenue Harriet Street Harrowby Road Harrowby Road South Hatherley Street Havelock Street Hawarden Avenue Hawthorne Road Haymarket Hazel Road Heathbank Road Heathbank Road Helmingham Road Helmingford Street Hemingford Street Henry Street Henry Street Henthorne Street Henthorne Street Henthorne Road Highfield Grove Highfield Grove Highfield Road Hilbre Street Hillside Road Hill Road Holborn Hill Holborn Street Holborn Hill Holborn Square Holly Bank Road Holt Hill Holt Hill Terrace Holt Road Holt Terrace Hope Street Hope Street Hope Street Hope Street Houldin's Place Howard Street Howbeck Road Howe Street Howson Street Howson Street	2 1 1 6 3 1 1 2 3 5 1 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 1 2 3 1 3 1 2 3 1 2 3 3 1 2 3 3 3 4 3 3 3 4 3 4 3 4 3 3 3 4 3 4 3 4 3 3 4 3 4 3 4 3 4 3 4 3 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 6 6 6 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	2 1

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TABLE V.—Continued.

Streets.	Total from all Causes.	From Zymotic Diseases only.	Streets.	Total from all Causes.	From Zymotic Diseases only.
Hoylake Road Hughes' Buildings Hughes' Lane	1		Lilly Street	3 2	1
Huskisson Street Ionic Street Inglemere Road Ingestre Road Ivy Bank Ivy Court	1 1 3		Linwood Road Liversidge Road Livingstone Road Livingstone Street Lloyd Avenue Lord Street	1 3 2 11 4	1
Ivy Street Ivydale Road Jackson Street James Street Jessamine Road John Street	1 1 2		Lorn Street Lorne Road Lowe Street Lower Ivy Street Lower George Street Lowther Street	1 1 10	
Keightley Street Kellett's Place Kelvin Road Kendal Street Kent Place	1 1 5	1	Lowwood Grove Lowwood Road Lunar Street Lydia Terrace Lynas Street.	2 2 3 2	1 2 1
Kent Street Kimberley Street King Street King's Mount Kingsdown Street Kingsland Road	1 1		Maddock Street Mallaby Street Malta Street Manor Hill Maple Street Marcus Street	2	
Kingsley Street Kingsmead Road North Kingsmead Road South Kinmel Street Kipling Avenue	$\frac{1}{2}$	1	Marion Grove Marion Street Market Market Place South Market Street	2	3
Kirkland Avenue Knowles Street Knowsley Road Knox Street Kylemote Koad Laburnam Road	. 1		Marlborough Grove. Marquis Street Marsden Villas Marshall Place Marshall Street	1	
Laird Street Lansdowne Road Larch Road Laurel Road	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	2	Mason's Court Mason Street Massey Street Mather Road	3 3	1
Laxey Terrace Lea Street Lees Avenue	$\begin{bmatrix} 2 \\ 1 \end{bmatrix}$		Maybank Road Meadow Lane Meadow Place Meadow Street	1	1
Leicester Street Leicester Terrace Leighton Road Leinster Street Leta Street Lever Terrace	$\frac{1}{2}$		Medway Road. Mellor Road. Menai Street. Mere Farm Road. Mersey Lane South. Mersey Mount	2 1 5 3	1

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TABLE V.—Continued.

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Mersey Road	3	1	North Road	2 .	
Merton Place	2	_	Oak Bank		
Meteor Street	4	3	Oak Street	4	I
Methuen Street	$\frac{1}{2}$		Oakdene Road	2	1
Midland Street Mill Street	3		Oakfield View	$\begin{vmatrix} 9 \\ 2 \end{vmatrix}$	
Millar's Place	2)	Oak Tree Place	2	
Millbank Cottages	TAGE		Oak Tree Terrace	ī	
Milner Street	1		Old Bidston Road	11	2
Milton Road	2		Old Chester Road	19	2
Milton Street	1		Old Priory	3	
Miriam Place			Olive Crescent	1	
Mollington Street			Oliver Lone	1	
Mona Street	$\frac{1}{3}$		Oliver Lane	=	
Monk Street Monk's Ferry	3	0	Oliver Street	$\frac{5}{24}$	1
Moon Street	4	1	Orchard Road	ì	•
Moorland Road	3	i	Oriel Road	3	1
Moreton Street	1		Osborne Road		
Morecroft Road	1		Osmond Street	3	
Morley Avenue	1		Oxton Road	1	
Mornington Street	5		Palm Grove	1	
Morpeth Buil 'ings	12	1	Palm Hill		
Mortimer Street	2		Palmerston Street Parkbridge Road	l	1
Mossley Road	-		Parkend Road		
Moss Lane			Parkhill Road		
Mounsey Road			Parkfield Avenue	1	
Mount Grove	4		Parkfield Place	3	
Mount Pleasant		- 1	Parkside Road	2	
Mount Road	5	1	Parkstone Road	2	
Mount Street	1	i	Park Grove	2	
Mulberry Road	$\frac{3}{2}$		Park Road	4	
Munster Street Myrtle Court	3		Park Road North	9	
Myrtle Place	3		Park Road South	ĭ	
Myrtle Street			Park Road West	1	0)
Napier Street	1		Park Street	12	1
Nelson Place	1		Parkton Grove		1
Nelson Road	3	1	Parr's Road	1	
Nelson Street	5	1	Paterson Street	$\frac{3}{5}$	1
Neptune Street	3 4	1	Patten Street	4	
Neston Street Newburn's Lane	2		Pearson Road	i	
New Chester Road	11	4	Peel Street	15	2
New Ferry Pier			Pensby Street		
Newling Street	2		Penrith Street	1	
Newton Street			Percy Place		
Norman Street	2		Pilgrim Street	$\begin{bmatrix} 2 \\ c \end{bmatrix}$	
Normanston Road		1	Pitt Street	6	
	100			1	

I 16 **TABLE V.**—Continued.

STREETS.	Total from all Causes.	From Zymotic Diseases only.	Streets.	Total from all Causes.	From Zymotic Diseases only.
Planet Street Pleasant Street Plumer Street Plymouth Place Pool Street Poplar Grove	1 3 2	1	Ripon Street Roberts Street Rochester Road Rock Ferry Pier Rock Lane East Rock Lane West	1 4 2 3 4	1
Poplar Road Portland Street Powell Street Prenton Park Road Prenton Road East Prenton Road West	2 1 4 1 1 3 2	,	Rock Park Rockville Street Rocky Bank Road Rodney Street Roe Street Romilly Street	5 1 12	1
Price's Lane	1 27 2 2 1	1 2 1	Rose Brae	1 3 2 2 4	1
Princes' Terr. (Grange Rd) Priory Court Priory Street	4		Roslin Road	4	1
Prospect Place. Pym Street Quarry Bank Quarry Bank Place. Quarry Bank Street Queen's Buildings (A to K) Queen's Buildings, (Tran.) Queen's Place	$\frac{1}{3}$	4	Rowland Street Roxburgh Avenue Rundle Street Rushton's Court Ruskin Avenue Russell Cottages Russell Place Russell Road	3 3 1	1
Queen's Road Queen Street Queensbury Street Quigley Street Radnor Place Raffles Road Railway Road	1 6	2	Russell Street St. Andrew's Road St. Anne's Grove St. Anne Street St. Anne's Terrace St. George's Avenue St. John Street	31	5
Randle Street Rathmore Road Ravenscroft Road Ravenswood Avenue Rawcliffe Road Redmond Street	3		St. Mary Street St. Mary's Avenue St. Mary's Gate St. Paul's Place St. Paul's Road St. Paul's Willas	3 2 7	3
Reedville Rhoden's Place Rhyl Street Richmond Cottages. Richmond Terrace	1 2 !	1	St. Peter's Road	4 2 9	
Ridley Street			Saxon Street	4	2

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TABLE V.—Continued.

Streets.	Total from all Causes.	From Zymotic Diseases only.	Streets.	Total from all Causes.	From Zymotic Diseases only.
Scott's Court Scott's Place Seabank Cottages Seabank Road Seaton Road Seeley Avenue Sefton Road Seymour Street Shakespeare Avenue Shaw Street Shaw's Place Shaw's Terrace Shore Road Shotwick Street Shrewsbury Road Sidney Road Sidney Street Sidney Terrace Silverdale Road Simpson Street Singleton Avenue Slitey Road Somerville Street South Bank South Hill Grove South Hill Grove South Road South Reserve South Road Southwick Road Spencer Avenue Spring Street Spring Villas Stafford Street Stanley Road Stanley Place Stanley Road Stanley Street Stanley Road Stewart Place Stewart Street Storeton Road Stuart Road Syn Street	2 2 1 3 1 1 2 4 3 1 1 2 2 3 1 1 1 2 2 3 3 1 1 1 2 2 3 3 1 1 1 2 2 3 3 1 1 1 2 2 3 3 1 1 1 1	1	Sussex Street Swan's Court Swan's Place Sycamore Road Talbot Road Tatton Road Tatton Road Taylor Street Temple Road Templemore Road Tennyson Avenue Tetbury Street Thomas Street Thomas Street Thomas Court Thompson Street Tollemache Road Tower Hill Tower Hill Tower Road Trinity Street Tudor Road Trinity Street Tudor Road Tunnel Road Tunnel Road Tunnel Road Turner Street Tyrer Street Upper Beckwith Street Upper Brassey Street Upper Brassey Street Upper Brasey Street Upper Brasey Victoria Drive Victoria Drive Victoria Road Village Road Village Road Village Terrace Vincent Street Vine Street Violet Road Vittoria Street Vittoria Street Vittoria Street Vittoria Street Vittoria Street Village Road Village Road Village Terrace Vincent Street Vincent Street Violet Road Vittoria Street Villan Street Walker Place Walker Place Walker Street Waring Avenue Warrington Street Warwick Street	2 2 3 2 1 1 2 3 1 3 2 1 8 10 6 3 4 3 1	1 2 2 1 1 1 1

TABLE V.—Continued.

Streets.	Total from all Causes.	From Zymotic Diseases only.	Streets.	Total from all Causes.	From Zymotic Diseases only
Water Street Waterford Road Waterloo Place Watson Street Waverley Grove Well Lane. Wellesley Street Wellington Road Wellington Terrace Wesley Street Wesley Street Wesley Terrace West View West Bank Road Westbourne Road Westbourne Road Westbourne Road Westbourne Road Westford Road Whalley Road Whalley Road Whetstone Lane Whetstone View White Street Whitfield Place Whitfield Place Whitfield Street Whitford Road Wilbraham Street Wilkinson Street Wilks Court Willan Street Willaston Place William Street	1 1 2 1 9 1 3 8 1 4 1 4 5 3	2 1	Williams' Cottages Willmer Road Willowbank Road Willow Street Wilson Street Wilson Street Wilton Road Wilton Street Windsor Place Windsor Street Wirral Street Woburn Place Wood Street Woodchurch Lane Woodchurch Road Woodland Avenue Woodland Grove Woodland Grove Woodland Terrace Woodland Street Woodland Road Woodland Street Woodland Road Woodland Road Woodland Street Woodland Road Woodland Street Wordsworth Avenue Wychiffe Street Wycherley Road Wye Street Yelverton Road York Place (Balls' Road) Zetland Road	1 10 1 1 3 2 1 1 1 9 3 10 3 1 7 7 2 1 2 1 2	3 1 2

SUPPLEMENT TO TABLE V.

RETURN OF DEATHS in Birkenhead Union Hospital and Workhouse during 1914.

Date	2	Sex	Age	Occupation, &c.	Cause of Death.	Address of Deceased when admitted.
1914						
Jan.	3	M	66	Labourer	Senility	139 Back Price St.
	5	M	72	Tailor	Epithelioma of tongue	37 Camden Street
	5	M	25	Butcher	Pneumonia	23 Taylor Street
	4	M	62	Shop manager	Bronehitis	44 Grange Road
	5	F	54	Spinster	Bronchitis	155 Peel Street
	7	M	27	Vanman	Pneumonia	4 Church Place
	8	M	46	Barrister-at-Law	Pulmonary tuberculosis	48 Haldane Avenue
	8	F	19	Laundress	Rheumatic Fever	242 Price Street
	9	F	41	Bootmaker's wife	Carcinoma of intestine	316 Beckwith Street
	9	F	49	Carter's widow	Pernicious Anaemia	18 Oriel Road
1	11	F	41	Labourer's wife	Carcinoma of Uterus	15 Alison Street
1	13	M	72	Blacksmith	Senility	10 Sun Street
1	13	M	46	Ship plater	Lobar pneumonia	34 Thomas Streets
	9	F	26	Labourer's wife	Pulmonary tuberculosis	22 Oak Street
	13	M	67	Carter	Capillary bronchitis	6 Eastham Street
	14	F	25	Clerk's widow	Cerebral hæmorrhage	13 Massey Street
	15	F	78	Storekeeper's widow		352A Price Street
	16	F	83	Joiner's widow	Senile gangrene	Charlecombe Street
	20	F	47	Labourer's widow		7 Walton Street
	21	M	68	Timber porter		32 Aspinall Street
	20	M	66	Blacksmith		88 Russell Street
	2 3	M	43	Coal carter		
	20	F.	64	Ship's stoker's widow		37 Thomas Street
	26	F	46	Labourer's wife		42 Queensbury Stree
	23	M	2	Labourer's son	1	2 Oak Street
	29	M	37	Dock labourer		Birkenhead
	29	M	39	Fitter's labourer	00	
	30	M	73	General labourer		
	30	F	30	Labourer's wife		. 12 Howard Street
Feb.	3	M	3 mos			
	3	F	39	Labourer's wife		
	1	M	5	Labourer's son		
	3	M	54	Dock labourer		
	6	M	76	Labourer		
	11	F	66			
	11	M	30	Coal trimmer		
	15 15	M F	33 52	Labourer Bricklayer's widow		
				1		1
	15 16	F	22 hr 40	Labourer's daughter		
		M	52		1 -	
	15 18	F	84	Labourer		
	19	M	11	Servant's son		
	20	M	2 mos			
	21	M	2 mos	Tailor		
	23	M	71	Building surveyor		
	-0	31	11	Building surveyor	Dionemeis	. 59 Church Road
			I			1

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SUPPLEMENT TO TABLE V.—Continued.

Date	Sex	Age	Occupation, &c.	Cause of Death.	Address of Deceased when admitted.
1914					
Feb. 25	F	34	Labourer's wife	Incomplete abortion	18 Stanley Court
25	F	15	Coal dealer's daughter	Septie Meningitis	35 Pleasant Street
26	F	79	Joiner's widow	Senility	178 Claughton Road
28	M	66	Boilermaker	Carcinoma of jaw	2 Waterloo Place
28	F	54	Labourer's wife	Carcinoma of jaw	43 Ivy Street
28	F	54	Engineer's widow	Cerebral hæmorrhage	8 Green Lane
28	F	62	Ship fireman's widow	Acute Bronchitis	29 Thomas Street
27	М	54	General labourer	Cardiae degeneration	9 Albert Place
Mar. 2	M	71	Coal merchant's vardman .	Mitral Regurgitation	11 Oliver Street
4	M	15	Labourer's son	Pulmonary tuberculosis	56 Payson Street
7	F	33	Labourer's wife	Phthisis	32 Pensby Street
7	M	69	Freight clerk	Senile Decay	184 Beckwith Street
9	M	63	House painter	Mitral regurgitation	12 Russell Road
10	F	24	Spinster	Phthisis	13 Briardale Road
5	M	30mins	Servant's son	Prematurity	56 Mornington St.
13	F	43	Rivetter's wife	Mitral Regurgitation	36 Roslyn Street
11	F	20	Domestic servant	Pneumonia	56 Mornington St.
15	M	67			53 Peel Street
15	M		Labourer	Cystitis	
		47	Drayman	Chronic Nephritis	62 William Street
13	M	76	Labourer	Bronchitis	3 Tower Road
15	M	64	Engine fitter	Bronchitis	65 Grove Road
14	F	64	Labourer's widow	Cardiac degeneration	7 School Place
16	M	38	Labourer	Broncho-pneumonia	10 Waterloo Place
20	M	23 mos		Congenital specific disease.	23 Thomas Street
21	F	30	Labourer's wife	Mitral stenosis	25 Cleveland Avenue
24	F	59	Iron turner's wife	Mitral regurgitation	9 Bk Myrtle Street
23	M	65	Boilermaker	Senility	3c Queen's Buildings
25	F	1 mon		Congenital specific disease	19 Payson Street
24	M	1 mon	son	Specific disease	22 Howson Street
25	F	71	Boilermaker's widow	Cerebral Thrombosis	2 Waterloo Place
26	M	62	Tailor	Bronehitis	1 Wirral Street
25	M	63	Labourer	Acute Bronchitis	222 St. Anne Street
25	M	42	Cotton porter		12F Queen's Buildings
29	M	48	Slater	Mitral regurgitation	44 Willmer Road
28	M	2 mos		Tabes mesenterica	74 Raffles Road
31	F	51	Labourer's wife		50 Morpeth Buildings
31	F	81	Occupation unknown		88 Watson Street
April 2	M	6 mos	son	1 -	16 Elmswood Road
3	M	37	Clerk		207 Conway Street
4	F	63	Iron driller's wife	Cardiae failure	7 Nelson Street
5	M	60	Railway porter		7 Jessamine Road
9	F	67	Labourer's wife		
9	F	71	Master mariner's widow		
9	F	46	Blacksmith's wife		
12	F	79	Night watchman's wife		10 White Street
11	M	54	Boilermaker's holder-up	Cerebral Hæmorrhage	42 Queensbury Street
13	M	74	Labourer		
10	M	51	Labourer	Phthisis pulmonalis	146 Chester Street
14	F	73	Custom House officer's widw	Bronchitis	7 Well Lane

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SUPPLEMENT TO TABLE V.—Continued.

Date	Sex	Age	Occupation, &c.	Cause of Death.	Address of Deceased when admitted.
1914					
Aprll 15	F	55	Traveller's wife	Diabetes Mellitus	27 Whitfield Street
16	F	35	Gentleman's wife	Tubercular meningitis	42 Rundle Street
15	M	82	Cattle dealer	Senility	13 Walker Street
17	M	45	Labourer	Duodenal ulcer	75 Market Street
17	F	46	Labourer's wife	Mitral regurgitation	81 Wood Street
20	M	10 mos	Labourer's son	Varicella	9 Planet Street
19	M	39	Plater's helper	Mitral disease	83 Peel Street
22 22	F	6 mos	daughter	Varieella	25 Carnforth Street
	F	83	Charwoman's daughter Boilermaker's widow	Varieella	
24	F	22		Broncho-pneumonia	7 Curzon Avenue
25		37	Labourer's daughter	Acute Pncumonia	24 Earl Street 15 Vincent Street
30	M	48	Labourer	Phthisis pulmonalis	Market Street
May 1	F	79	Labourer's widow	Senility	277 Lansdowne Roa
_	M	66	Butcher	Arterio sclerosis	35 Portland Street
May 3 April 29	M	89	Labourer	Senility	6 Lowther Street
May 4	M	44	Labourer	Pulmonary tuberculosis	3 Hind Street
2 2	M	66	Labourer	Chronic Bronchitis	2 Wilson Street
2	F	16 mos	Fireman's daughter	Varieella	11 Wilson Street
7	M	38	Labourer	Pulmonary tuberculosis	108 Beckwith Street
8	M	51	Labourer	Ischio-Reetal absects	10 Bentinek Street
11	M	57	Labourer	Mitral Regurgitation	146 Price Street
12	M	11 mos	Shunter's son	Septic Meningitis	108 Church Street
10	М	64	Labourer	Carcinoma of Ocsophagus .	43 Bk St. Anne St.
15	M	77	Blacksmith	Senile deeay	23 Carlisle Street
17	M	71	Labourer	Senile decay	33 Gladstone Street
18	M	75	Shipwright	Myocardial degeneration	18 Stanley Street
16	M	48	Labourer	Carcinoma of Liver	32 Aspinall Street
16	M	19	Labourer	Septiéæmia	4 Seabank Cottages
23	M	52	Rag gatherer	Mitral regurgitation	161 St. Anne Street
23	M	75	Plater's helper	Arterio selerosis	10 Pitt Street
24	M	33	Labourer	Pulmonary tuberculosis	37 Henry Street
20	M	11 mos	son	Whooping eough	17 Lorn Street
26	F	38	Labourer's wite	Cerebral hæmorrhage	3 Priory Court
23	F	16	Labourer's daughter	Heart failure	5 Myrtle Court
27	M	49	Ship's steward	Pulmonary tubereulosis	75 Market Street
31	F	68	Labourer's widow	Bronchitis	32 Stanley Road
30	M	61	File cutter	Old Hemiplegia	65 Old Chester Road
29	F	66	Gardener's wife	Heart failure	59 Abbey Street
30	F	58	Plasterer's widow	Empyema	207 Conway Street
June 2	M	28	Doek labourer	Lobar pneumonia	230 Brook Street
1	M	35	House painter	Pulmonary tubereulosis	19 Thomas Street
6	M	83	Dock labourer	Myocardial degeneration	24 Oak Street
8	F	39	Boiler-scaler's wife	Pneumonia	32 Bertha Street
12	F	40	Coalheaver's wife	Puerperal septicæmia	18 Elmswood Road
13	M	76	Labourer		43 Frederick Street 31 Camden Street
13	M	70	Railway porter	Lobar pueumonia	115 St. Anne Street
23	M	20 mos	Carter's son	Broncho pneumonia	119 St. Anne Street

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SUPPLEMENT TO TABLE V.—Continued.

Date	Sex	Age	Occupation, &c.	Cause of Death.	Address of Deceased when admitted.
1914					
June 18	F	19 mos	Labourer's daughter	Consumption of bowels	23 William Street
18	M	68	Labourer	Carcinoma Ventriculi	15 Priory Street
24	M	40	Iron glazer	Hæmorrhagie transverse	27 Sidney Buildings
26	F	51	Bricklayer's widow	Mitral regurgitation	48 Flamank Street
26	F	69	Caretaker's wife	Hemiplegia	6 Carlisle Street
27	F	16	Baker's daughter	Pulmonary tuberculosis	40 Bridge Street
. 27	F	47	Labourer's widow	Chronic Nephritis	18 Flamank Street
27	M	57	Boilermaker	Broneho-pneumonia	14 Rodney Street
29	M	55	Cattle drover	Mitral regurgitation	35 Lord Street
26	F	78	Chimney sweep's widow	Schile decay	360 Brook Street
30	F	70	Able seaman's widow	Senile decay	56 Cathcart Street
28	M	63	Army pensioner	Myocarditis	4 Waterloo Place
July 1	F	63	Pilot's widow	Mitral regurgitation	12 Oak Street
2	F	55	Bootmaker's wife	Pulmonary tuberculosis	23 Lees Avenue
5	M	14 mos		Whooping cough	1 Hope Street
6	M	62	Labourer	Carbuncle of neck	7 Walton Street
7	F	79	Watchman's widow	Schile decay	18 Pitt Street
8	F	86	Railway goods checker	Broncho-pneumonia	124 Whetstone Lane
10	F	93	Ship carpenter's widow	Senile decay	23 Tunnel Road
13	M	51	Labourer	Cerebral Thrombosis	62 St. Paul's Road
14	M	74	Blacksmith	Carcinoma of Pancreas	68 Beckwith Street
14	M	85	Marine engineer	Senile decay	83 Camden Street
15 7	M	76	Labourerson	Spina Bifida	36 Flint Street 268 Cleveland Street
18	M	7 dys	Tailor	Mitral regurgitation	15 Russell Place
21	F	47	Labourer's wife	Suppurative Cholangitis	36 Frederick Street
21	F	70	Waterman's widow	Chronic Bronchitis	25 Walker Street
22	F	64	Labourer's wife	Cerebral Embolism	4 Thomas Street
23	M	65	Blacksmith's striker	Carcinoma of stomach	168 Beckwith Street
27	F	52	Plumber's wife	Mitral regurgitation	14 Rose Street
28	F	54	Waterman's widow	Carcinoma of Cervix	10 Elgin Street
29	F	19	Driller's daughter	Mitral disease	20 Gladstone Street
28	M	52	Master fruiterer	Chorea	36 Elm Grove
Aug. 1	F	32	Gardener's wife	Pulmonary tuberculosis	12 Anglesea Terrace
3	M	73	Ship painter	Mitral regurgitation	29 Albion Street
2	M	49	Ship fireman	Lobar Pneumonia	19 Flamank Street
7	M	63	Hand driller	Paralysis of insanc	6 Abbey Terrace
8	F	71	Stonemason's widow	Senile decay	16 Derby Street
9	M	52	Fisherman	Mitral regurgitation	24 Grosvener Street
7	F	68	Carpenter's widow	Carcinoma of Uteri	56 Flamank Street
10	M	44	Boilermaker	Ulcers of leg	140 Chester Street
11	M	43	Labourer	Lobar pneumonia	12 Brougham Street
11	F	76	Stone quarrier's widow	Broncho-Pneumonia	22K Queen's Buildings
11	M	33	Labourer	Abscess of Kidney	379 Brook Street
13	M	21	Boiler scaler		30 Abbot Street
14	F	40	Labourer's wife	Pulmonary tuberculosis	8 Crace Street
10	F	51	General hawker	Pulmonary tuberculosis	109 St. Anne Street
13	M	54	Ship rivetter	Fracture of Spine, etc	1 Rose Place
14	F	84	Stone breaker's wife	Senile decay	37 Field Street
		1			

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SUPPLEMENT TO TABLE V.—Continued.

Occupation, &c.	Cause of Death.	Address of Deceased when admitted.
ill poster's widow	Myocardial degeneration	3 Oak Strect
layground attendant	Cerebral hæmorrhage	8 Vine Street
ock labourer	Senile dementia	49 Lord Street
arter	Pulmonary tuberculosis	4 Howe Street
lum ber	Septic cystitis	95 Oliver Street
abourer's son	Lobar pneumonia	40 Flamank Street
oiner	Lobar pneumonia	18 Rodney Street
ock labourer	Pulmonary tubereulosis	45 Bk. St. Anne St.
ootmaker's daughter	Mitral disease	32 Elgin Street
ngine fitter	Senile decay	49 Ivy Street
abourer	Carcinoma of Pancreas	6 Church Terrace
a bourer	Pulmonary tuberculosis	140 Chester Street
abourer's wife	Cerebral Hæmorrhage	35 Field Street
ock Labourer	Perforation of Bowel	105 Chester Street
rinter's compositor	Pulmonary tuberculosis	4 Harriett Street
pinster	Schirrus of breast	170 Bedford Road
son	Tuberculous meningitis	37 Brunswick Street
abourer's son	Gastro intestinal atrophy	28 White Street
ock labourer	Septicæmia	13 Morpeth Buildings
filk salesman's wife	Morbus cordis	10 Tower Hill
pinster	Mitral regurgitation	30 Eldon Place
pinster	Epilepsy	3 Catherine Street
abourer	Interstitial Nephritis	2 Milton Street
abourer's widow	Bronchitis	108 Peel Street
abourer	Senile decay	8 Claughton Road
ady's companion	Diabetes	2 Gothic Street
oiner's widow	Bronchitis	38 Yelverton Road
Boilermaker's widow	Pulmonary tuberculosis	91 Queen's Buildings
abourer	Carcinoma of prostate	8 Brimstage Street
eaman's widow	Bronchitis	6 Waterloo Place
Boilermaker's widow	Bronchitis	21 Bk. St. Anne St.
louse painter	Aortie regurgitation	24 Willmer Road
Doek gateman's widow	Sareoma of breast	20 Derby Road 10 Oliver Place
Labourer's daughter	Tubereulosis of lungs Pulmonary tuberculosis	20 Tower Hill
Ship's fireman	Pulmonary tuberculosis	Birkenhead
Stonemason's widow	Hemiplegia	50 Chatham Road
Carter	Pulmonary tuberculosis	24 Priory Street
Fireman's wife	Pulmonary tuberculosis	85 Maybank Road
Slater, &c	Arterio-selerosis	11 Midland Street
Boilermaker	Mitral regurgitation	2 Ivy Street
Saster boot repairer	Chronie Bronehitis	141 Claughton Road
abourer's wife	Bronchitis	9 Blueher Street
Ship's fireman	Broncho-pneumonia	123 Beckwith Street
Labourer's widow	Myoeardial degeneration	31 Pitt Street
shore donkeyman	Broneho-pneumonia	21 Aspinall Street
Labourer's son	Tuberculous meningitis	214 Chester Street
Labourer	Cerebral hæmorrhage	31 Holt Hill
Boiler scaler	Valvular disease of heart	40 Pleasant Street
_a	bourer	bourer Cerebral hæmorrhage

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SUPPLEMENT TO TABLE V.—Continued.

Dat	te	Sex	Age	Occupation, &c.	Cause of Death.	Address of Deceased when admitted.
191	4					
Oct.	23	F	87	Spinster	Mitral disease	53 Woodchurch Road
	27	F	65	Doctor's widow	Hemiplegia	27 Woodville Road
	27	M	4 mos	Soldier's son	Enteritis	14 Lorn Street
	31	F	2 mos	,,	Congenital defects	12 Kinmel Street
Nov.	1	F'	31	Bodermaker's widow	Lobar pneumonia	155 Bridge Street
	3	M	76	Carter	Heart disease	305 Cleveland Street
	3	F	70	Carter's widow	Cerebral hæmorrage	24 Grosvenor Street
	5	M	32	House painter	Pulmonary tuberculosis	15 Waterloo Place
	7	F	77	Ship painter's widow	Chronic Bronchitis	29 Albion Street
	7	M	23	Railway platelayer	Pulmonary tuberculosis	18B Queen's Buildings
	5	M	27	Watchmaker	Fracture of Skull	32 Balls Road East
	7	M	66	General labourer	Old hemiplegia, bronchitis	22 Church Street
	10 7	M F	54 78	General labourer	Lobar pneumonia	7 Meteor Street 59 Oaktree Place
		M	86	0	Senile decay	226 Chester Street
	10 12	M	48	Timekceper	Aortic Mitral regulgitation .	10 Monk Street
	15	F	31	Dock labourer's wife	Carcinoma of Uterus	18 Bk. St. Anne Street
	12		$14 \mathrm{days}$	son	Preparature birth	12 Howard Street
	17	M	94	Boilermaker	Arterio-sclerosis . Senility .	41 Keightly Street
	18	M	9	Soldier's son	Pulmonary tuberculosis	229 St. Anne Street
	18	F	35	Carter's wife	Cerebral Thrombosis	7 Napier Street
	18	F	57	General labourer's widow	Pulmonary Tuberculosis	76 Thomas Street
	20	F	56	Dock labourer's widow	Heart disease	97 Brook Street
	25	M	49	Dock labourer	Pulmonary tuberculosis	12 Brook Place
	23	F	65	Spinster	Acute Bronchitis	16 Cross Street
	13	M	33	Engine fitter's labourer	Fracture of skull	176 Brook Street
	21	M	43	Seaman	Pulmonary tuberculosis	22 Church Street
	28	M	36	Dock labourer	Pulmonary tuberculosis	11 Field Street
	28	M	16	Soldier's son	Tuberculosis of Lung	2 Aberdeen Street
Dec.	2	F	74	Postal supt.'s widow	Chronic Bronchitis	41 Beech Road
	2	M	24	Labourer	Lobar pneumonia	3 Austin Street
	3	M	13	Deceased engine driver's son	Pulmonary tuberculosis	8 German Terrace
Nov.		M	19	Coal trimmer	Pulmonary tuberculosis	S.S. City of Lucknow
Dec.	7	F	16 mos			24 Osmond Street
	2 9	M M	49 65	Dock labourer	Sarcoma of Neck	65 Wood Street
	10	M F	74	General labourer's widow	Broncho-pneumonia Bronchitis, cardiac disease	22 Church Street
	11	F	2	Soldier's daughter	Whooping cough	6 Walker Place 46 Flamank Street
	11	F	80	Tailor's widow	Chronic bronchitis	243 Brook Street
	10	M	60	Gardener	Sarcoma of neck	11 Bridge Street
	13	M	56	Shoeing smith	Hemiplegia, cardiac failure	11 Bridge Street
	12	M	2	Soldier's son	Measles, Broncho-pneumonia	
	13	M	27	Municipal clerk	Cerebral hæmorrhage	16 Rosedale Road
	14	F	20 mos		Whooping cough	55 Flannsk Street
	15	M	41	Teamowner's carter	Acute bronchitis	15 Vulcan Street
	15	M	45	Hairdresser	Carcinoma of liver	2 Watson Street
	15	F	33	Soldier's wife	Tuberculosis of lung	2 in 23 Fox Street
	16	M	63	Master slater	Gastro enteritis	51 Vulcan Street

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SUPPLEMENT TO TABLE V.—Continued.

Date	Sex	Age	Occupation, &c.	Cause of Death.	Address of Deceased when admitted.
1914					
Dec. 11	F	74	Meehanie's widow	Arterial selerosis	17 Cardigan Street
11	F	77	Monthly nurse	Arterial sclerosis	10 Oliver Place
20	M	66	General labourer	Carcinoma of Caecum	2 Berry Street
22	M	55	Travelling showman	Cerebral hæmorrhage	Caravan, Cleveland St
22	F	50	Master Pork buthcer's wife	Phthisis	202 Beckwith Street
22	F	60	Spinster, charwoman	Lobar pneumonia	31 Henry Street
22	M	70	Ship rigger	Acute bronchitis	9 Dover Street
23	F	4	Dock labourer's daughter	Measles	34c Queen's Buildings
23	M	58	General labourer	Bronchitis, pneumonia	422 Price Street
23	F	5	Dock labourer's daughter	Measles	55 Flamank Street
23	F	2	Dock labourer's daughter	Measles	12 Flamank Street
26	M	53	River waterman	Disseminated sclerosis	35 Cobden Street
24	F	65	Cotton porter's widow	Bronehitis	33 Grange Rd. West
28	M	11	House painter's son	Tubercular meningitis	8 Coventry Street
28	M	21	General labourer	Phthisis	32 Leicester Street
31	F	20 mos	Hairdresser's daughter	Septic gingivitis	9 Sun Street



